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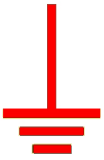
1 Safety precautions

To ensure the operator can correctly use the vinyl cutter, and prevent damage of vinyl cutter, please follow the instructions with the signs below.

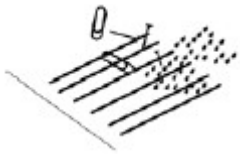
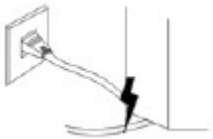
a Safety using methods

WARNING	Any improper operation possibly results in hazard of life or damage of equipment.
CAUTION	Any improper operation possibly results in hazard of life or other objects.

b. Definition of warning symbols

	WARNING
	Don’t use the power source not meeting rating voltage, otherwise fire or electronic shock may be resulted in.
	If the machine gives out smoke or unpleasing smell, or noise sounds please do not use it in such case, continuing using it may result in fire or electronic shock.
	Do not put out the plug when the power is on to avoid damage to the machine.
	Make sure electrical grounding when it is working. Otherwise it will electric shock and machine can’t work normally.

	Don’t detach, repair or reconstruct the machine, otherwise fire and electric, hazard of life may be result in.

	CAUTION	
	Don’t leak any liquid or drop metal into the machine, such things may result in fire.	
	Don’t touch the knife top with your finger to prevent injury or perspiration of knife head.	
	Do not damage or random replace the supplied power cable, do not excessively bend, pull, bundle the power cable or place weight on it. Otherwise the power source may be damaged even fire or electric shock is thus incurred.	
	To unplug the power cable from replace, please hold the plug instead of the cable. Strongly pulling of the cable possibly result in electric or fire.	
	When operating the machine, do not place either of your hands on capstan to avoid injury.	

	Place the machine on a stable surface, otherwise the machine may fall therefore get damaged.	
	To unplug the power cable from replace, please hold the plug instead of the cable. Strongly pulling of the cable possibly result in electric or fire.	
	Any operating is forbidden in case of storm or lighting to prevent damage of the machine.	

	Place the machine on a stable surface, otherwise the machine may fall therefore get damaged.	
	To unplug the power cable from replace, please hold the plug instead of the cable. Strongly pulling of the cable possibly result in electric or fire.	
	Any operating is forbidden in case of storm or lighting to prevent damage of the machine.	

2. Standard accessories

Check following accessories after unpacking, please contact the seller or our company if you find anything missing.

Item:	Parts	Quantity	Picture	Note
1	Power cable	1		Standard
2	USB cable	1		Standard
3	RS232 cable	1		Standard
4	Blade group	1		Standard
5	Blade	3		Standard
6	Pen group	1		Standard
7	CD disk	1		Standard

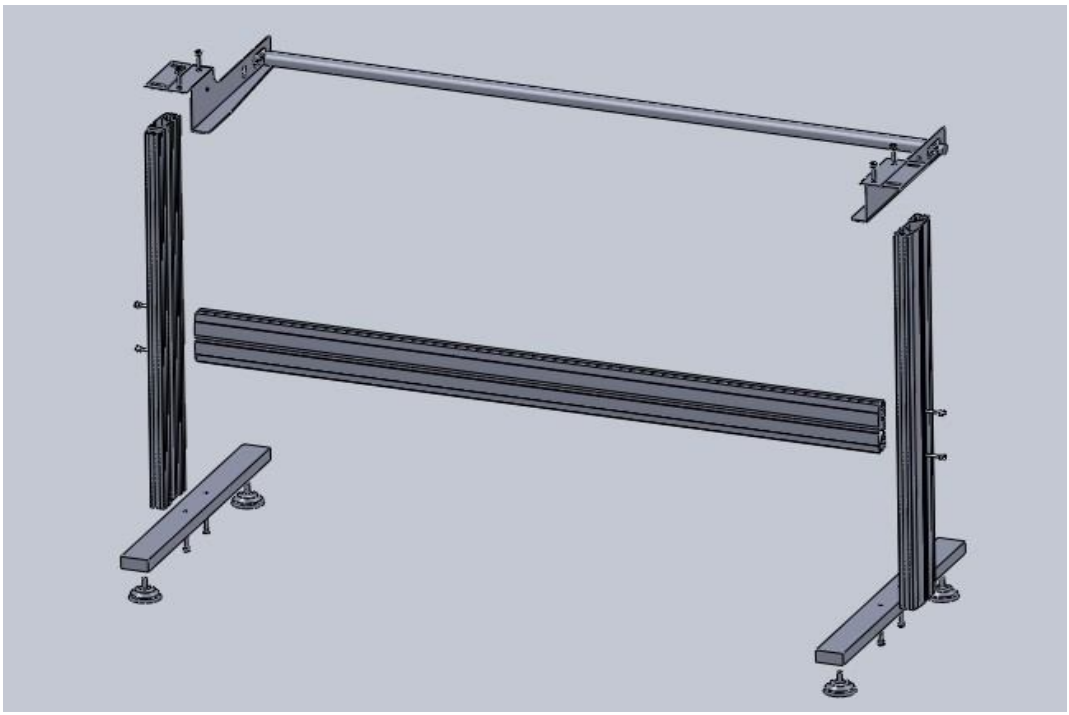
3.Product Structure Diagram

1. Platform 2. Cover 3. Control Panel 4. Carriage 5. Blade group 6. Pinch roller group
7. Trim strip 8. Upper cover plate 9. Switch 10.RS232 serial port/USB port/SD port interface

4.Installation

a Leg frame

We only supply floor stand for HL1200 and HL630, and the floor stand for HL1200 is a standard equipment, but for HL630 is optional.



Take out every party of the stand from the packing box, turn on the party bag, and install the stand according to the illustrational showing. Lay the cutter on the stand after install, aim at and install spiral shell, then lock with the screw.

b Installation and Use

1 Place the cutter in a plane and roomy place, and make sure there is 300mm room place around the cutter.

2 Notes on Location (Do not locate the plotter in any of the places listed below)

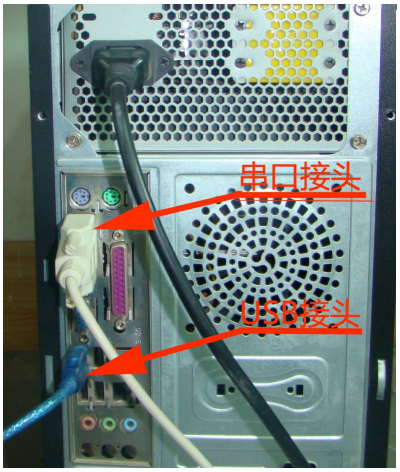
- A place exposed to direct sunlight
- A place that vibrates
- A dusty place
- A place where temperature or humidity varies significantly

c Power connection

Check the electrical connection and power supply voltage before you connect plotter's power.

d Serial RS232 cable and USB cable connection

1.Connection Methods



Warmly remind：RS232 serial wire and USB wire are those two isolated wire，when connection only need one of those two wires.

2. Connected display

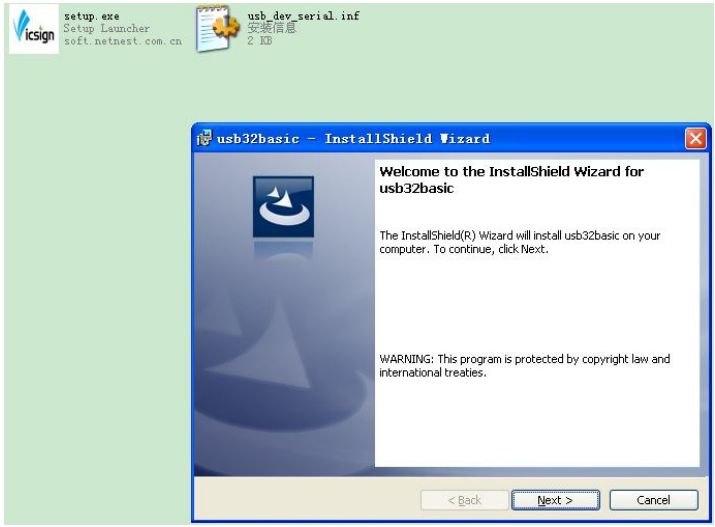
After connecting RS232 serial port, using COM1 port to transfer out on it directly.

e 1. USB cable

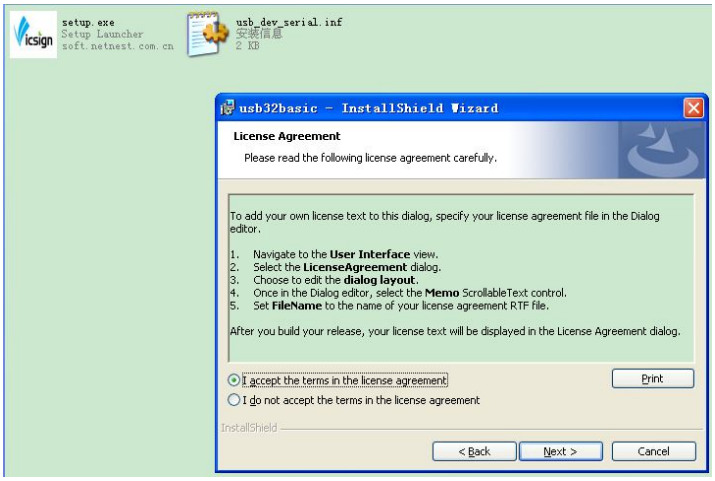
1.USB driver suits for 32 bits&64 bits CPU,Windows XP、Vista、Windows7、Windows 8.Depends on your computer system configuration, chose the corresponding driver, then double click “setup.exe”

2.Open the CD, find the USB driver

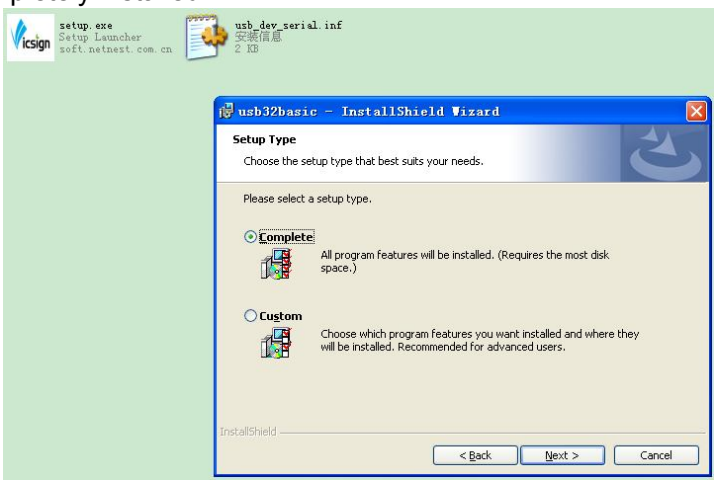
3.Click (as show in the figure), click next (Next)



4.Click“ I accept the terms in the license agreement”,click “Next”

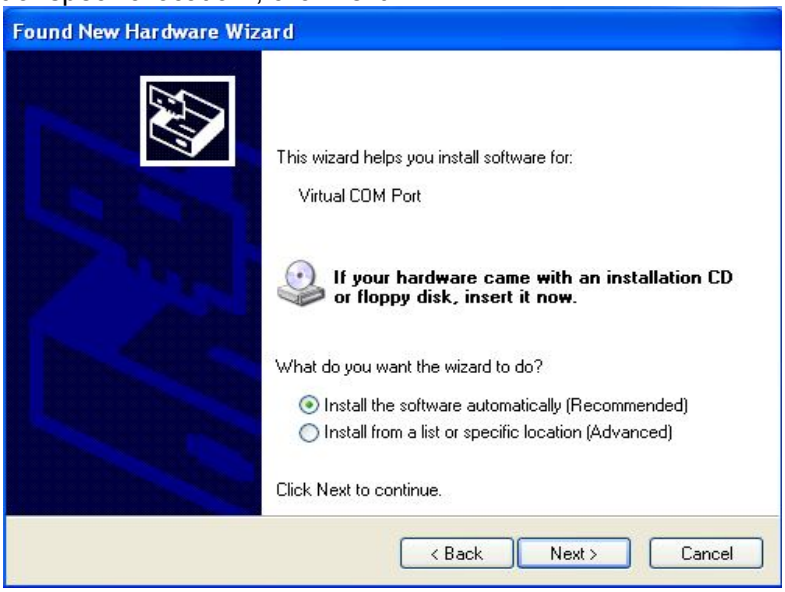


5.Choose "Complete" to install all necessary features then Click“next”; wait for a moment ， Click “finish” ， make it completely installed.

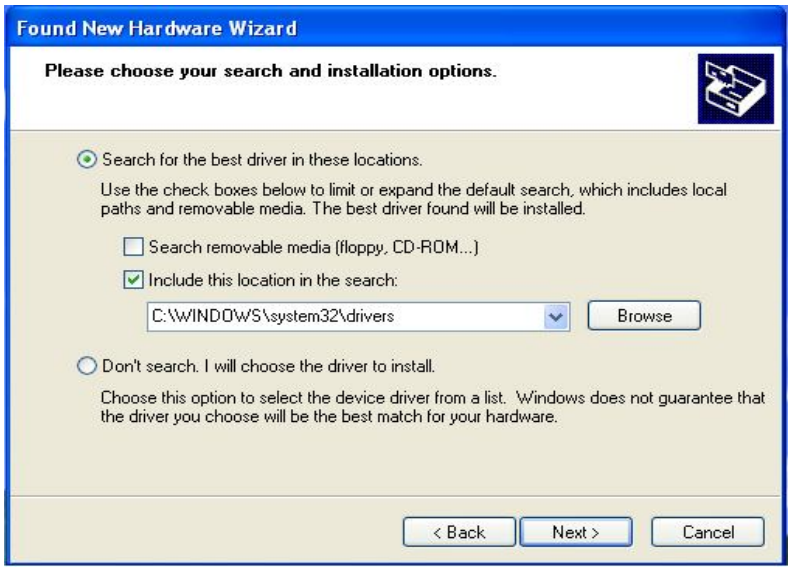


32bit driver Manual installation method：

Connect USB cable with the PC and the machine, switch on the machine, the computer will automatically appear dialog "Found New Hardware Wizard" as shown:
Select "from the list or specific location", click next

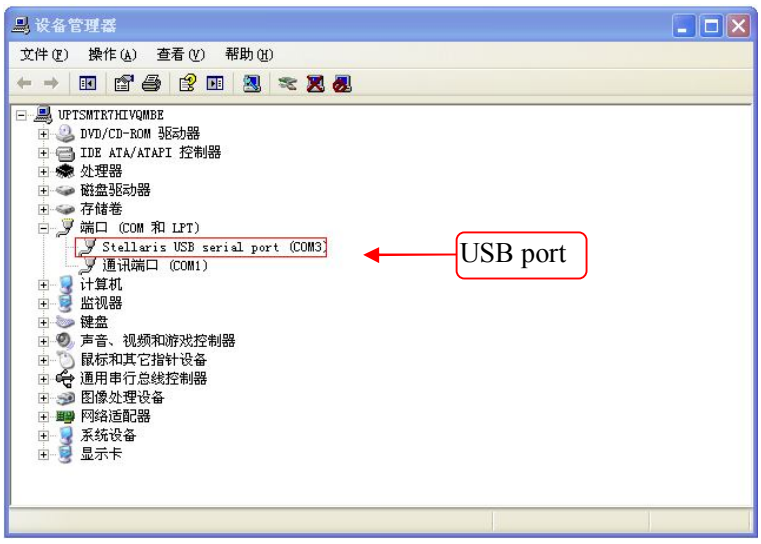


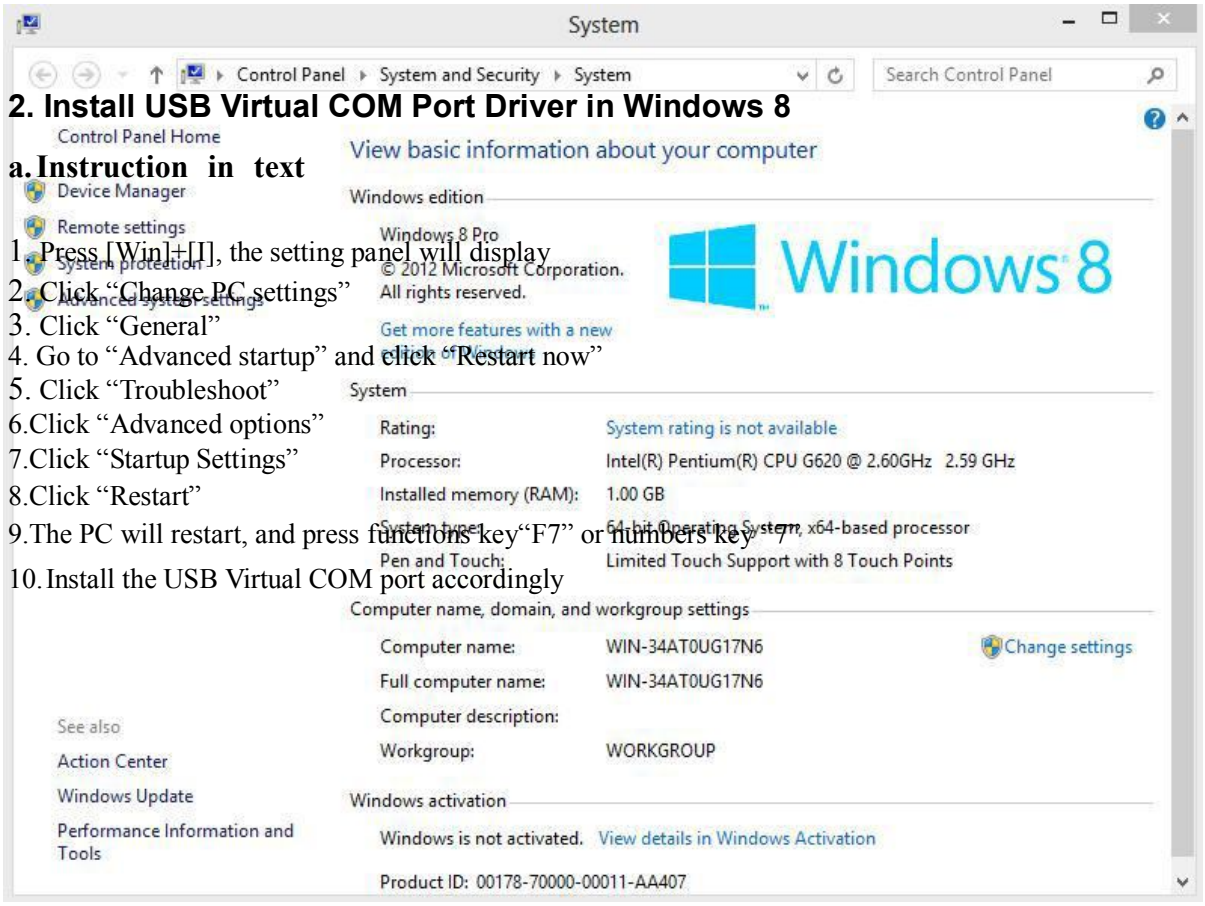
Into view, select “search for the best driver in these locations.” and ”Include this location in the search:” select the USB driver file path, click Next , as follows:



Click Finish to close the wizard after installing, as follows:

Open the computer's device manager, below dialog displays the USB drive, the interface in software should be same as device.





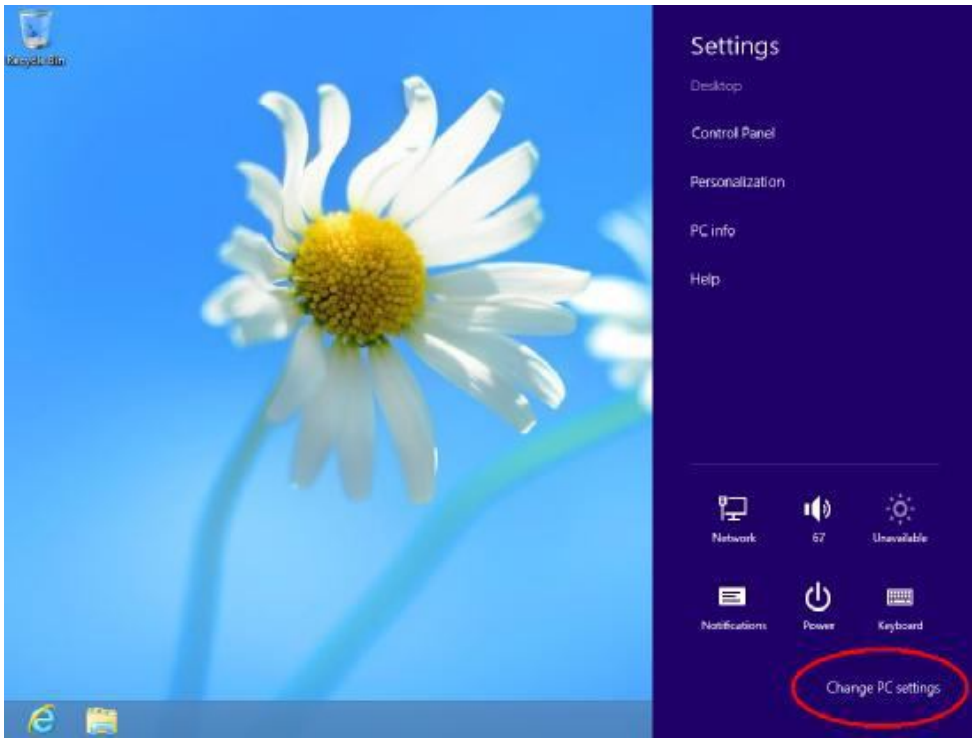
2. Install USB Virtual COM Port Driver in Windows 8

a. Instruction in text

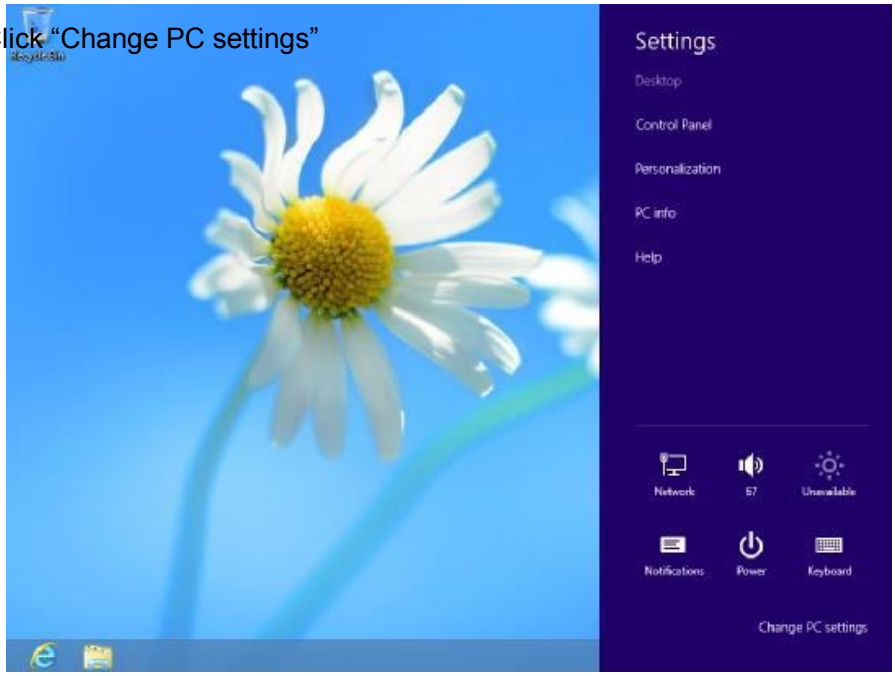
1. Press [Win]+[I], the setting panel will display
2. Click “Change PC settings”
3. Click “General”
4. Go to “Advanced startup” and click “Restart now”
5. Click “Troubleshoot”
6. Click “Advanced options”
7. Click “Startup Settings”
8. Click “Restart”
9. The PC will restart, and press functions key“F7” or numbers key “7”
10. Install the USB Virtual COM port accordingly

b. Detailed steps withscreen shots:

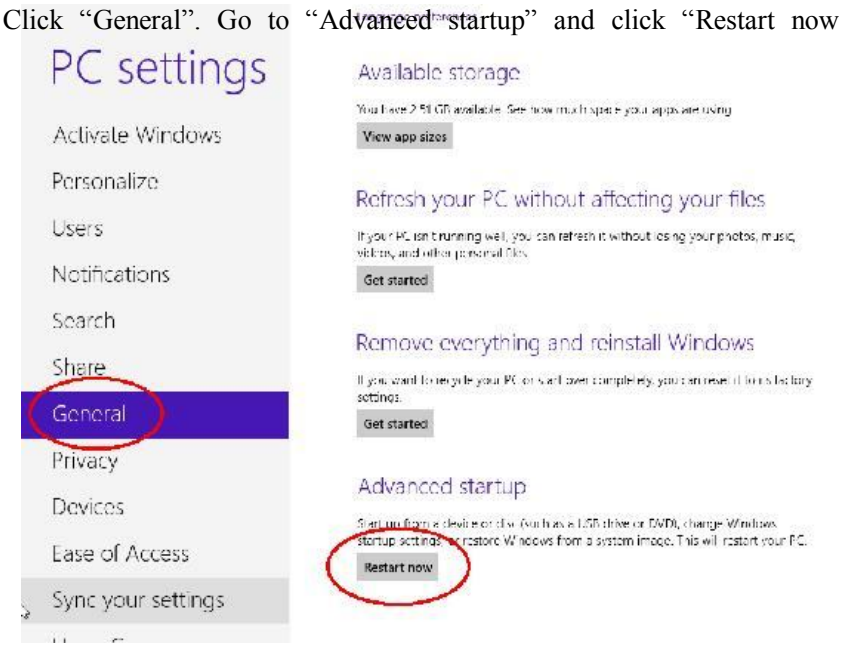
1. Press [Win]+[I], the setting panel will display


Settings
Desktop
Control Panel
Personalization
PC info
Help
Network
67
Unavailable
Notifications
Power
Keyboard
Change PC settings

2. Click “Change PC settings”

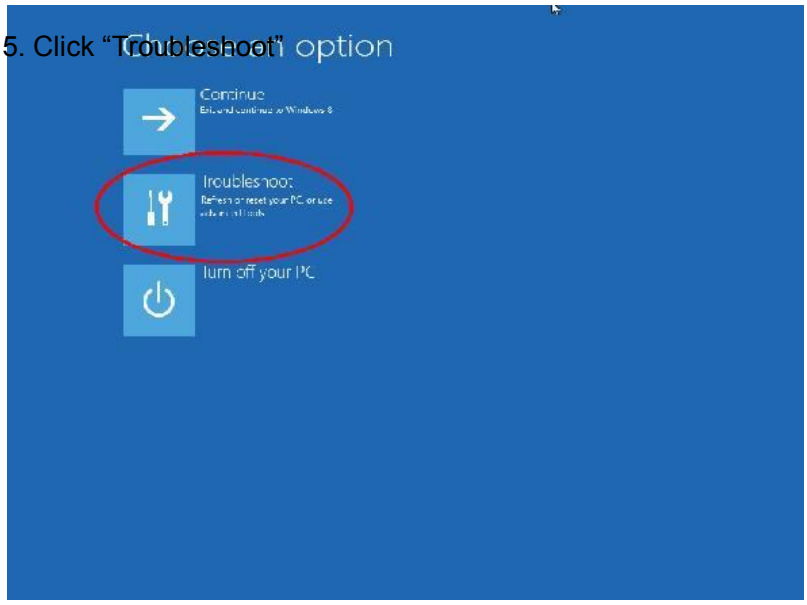


3. Click “General”. Go to “Advanced startup” and click “Restart now

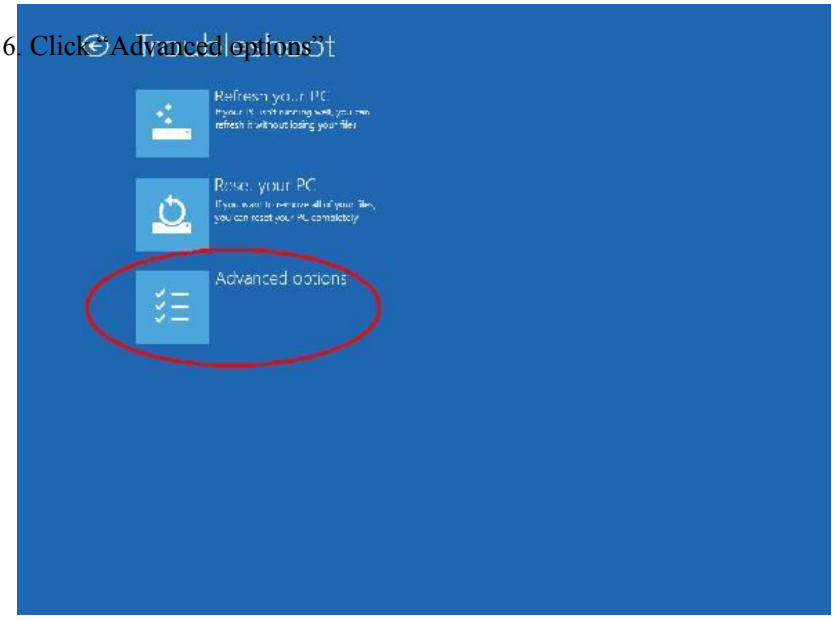


4. PC is restarting.

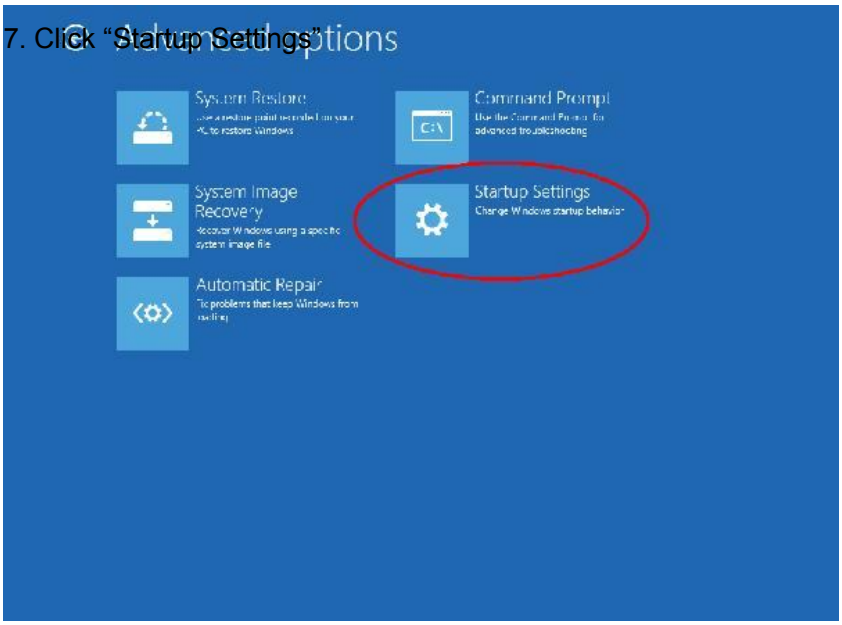
5. Click “Troubleshoot”



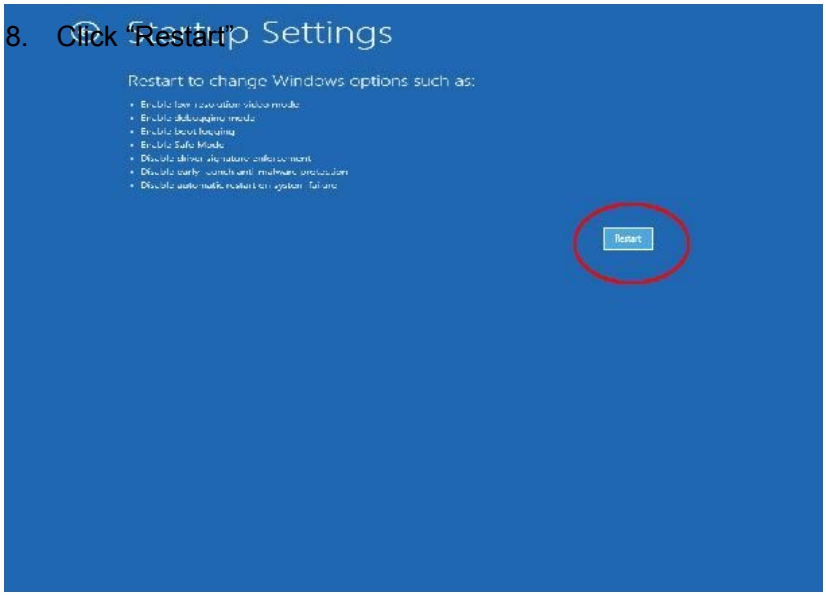
6. Click “Advanced options”



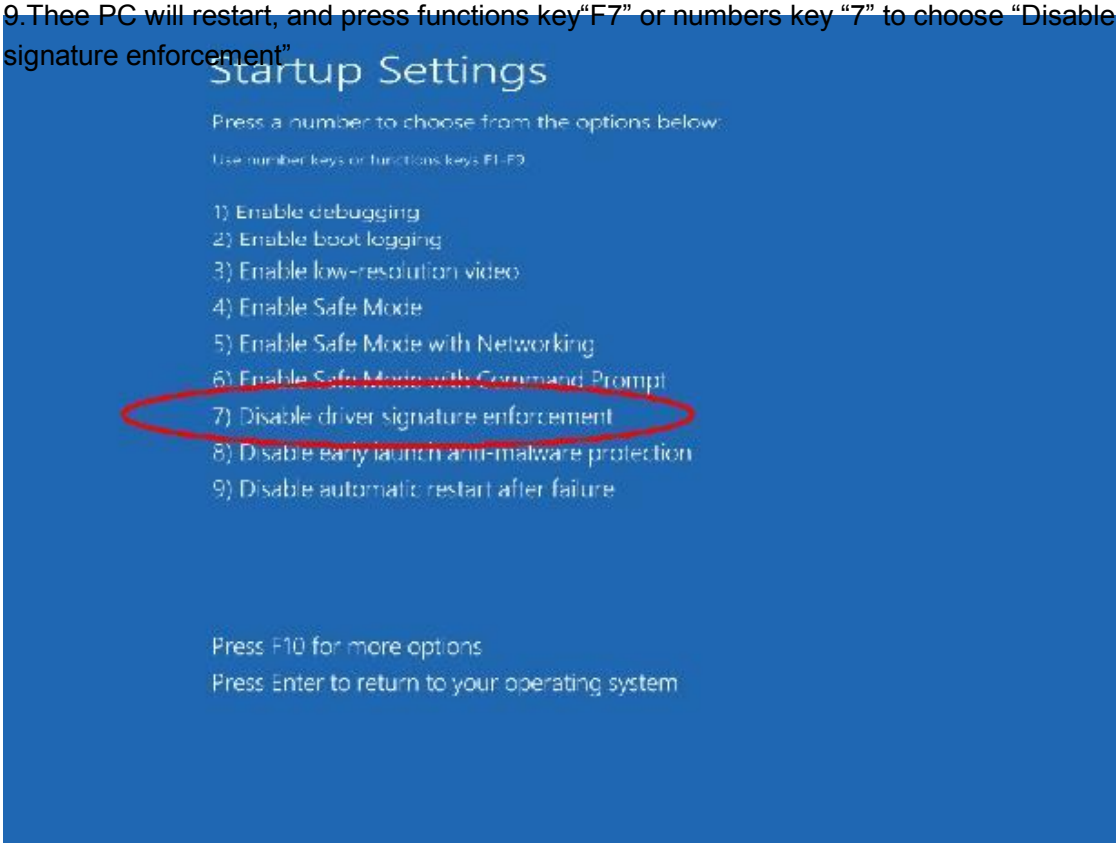
7. Click “Startup Settings”

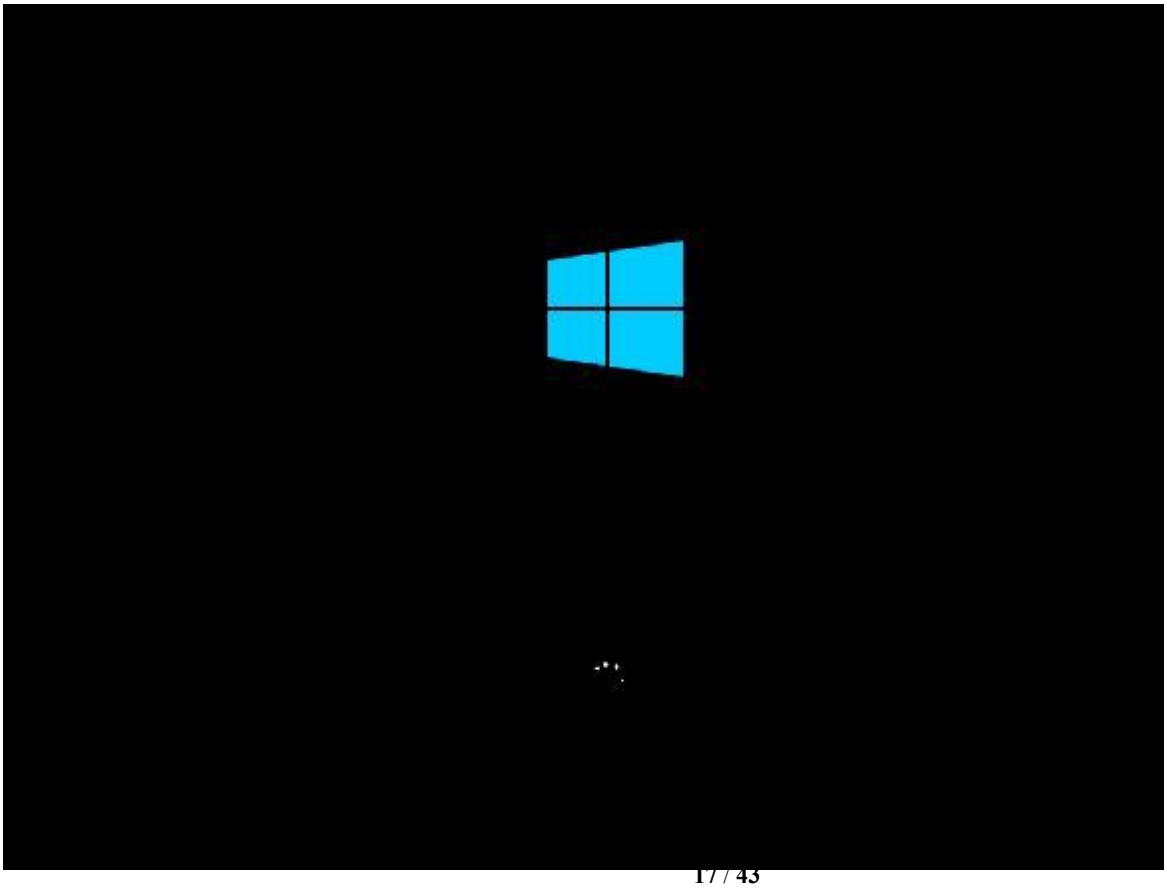


8. Click “Restart”

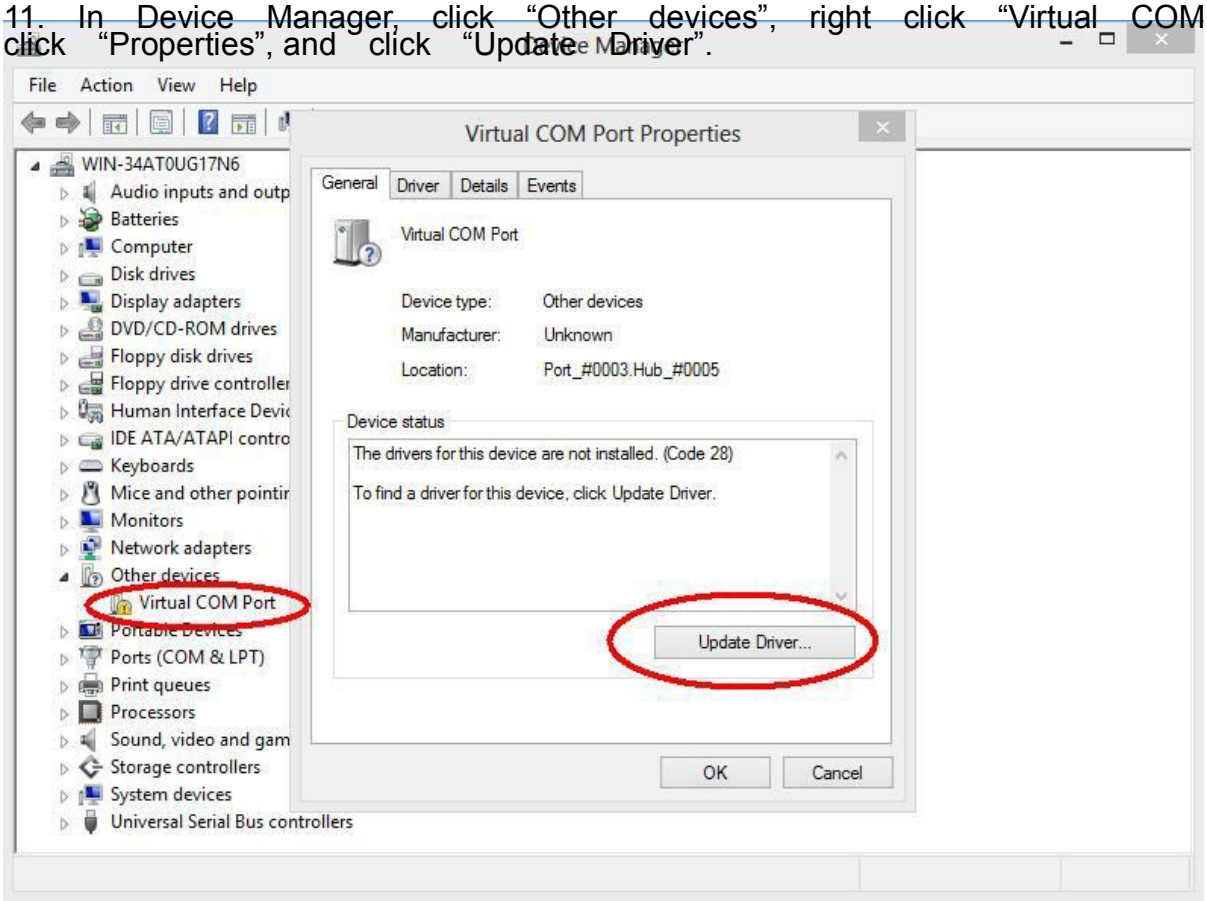


9.Thee PC will restart, and press functions key“F7” or numbers key “7” to choose “Disable driver signature enforcement”

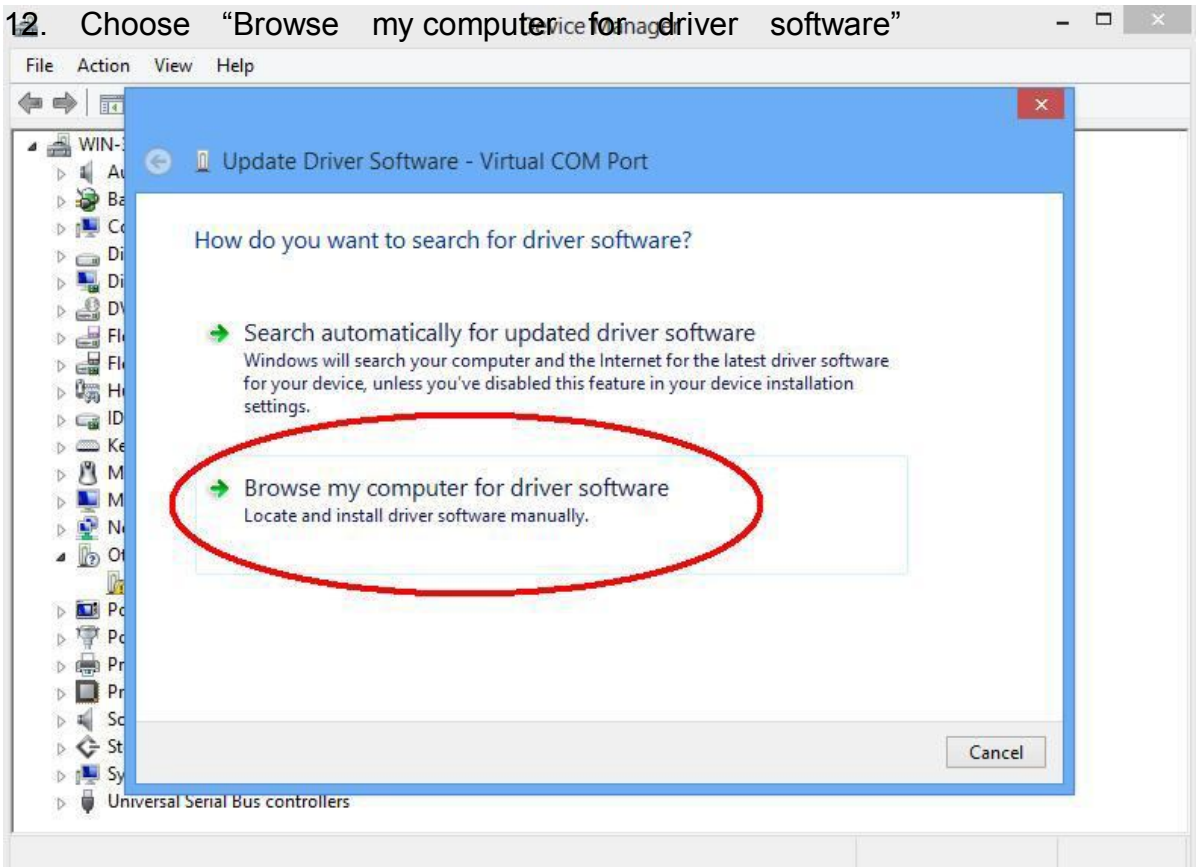




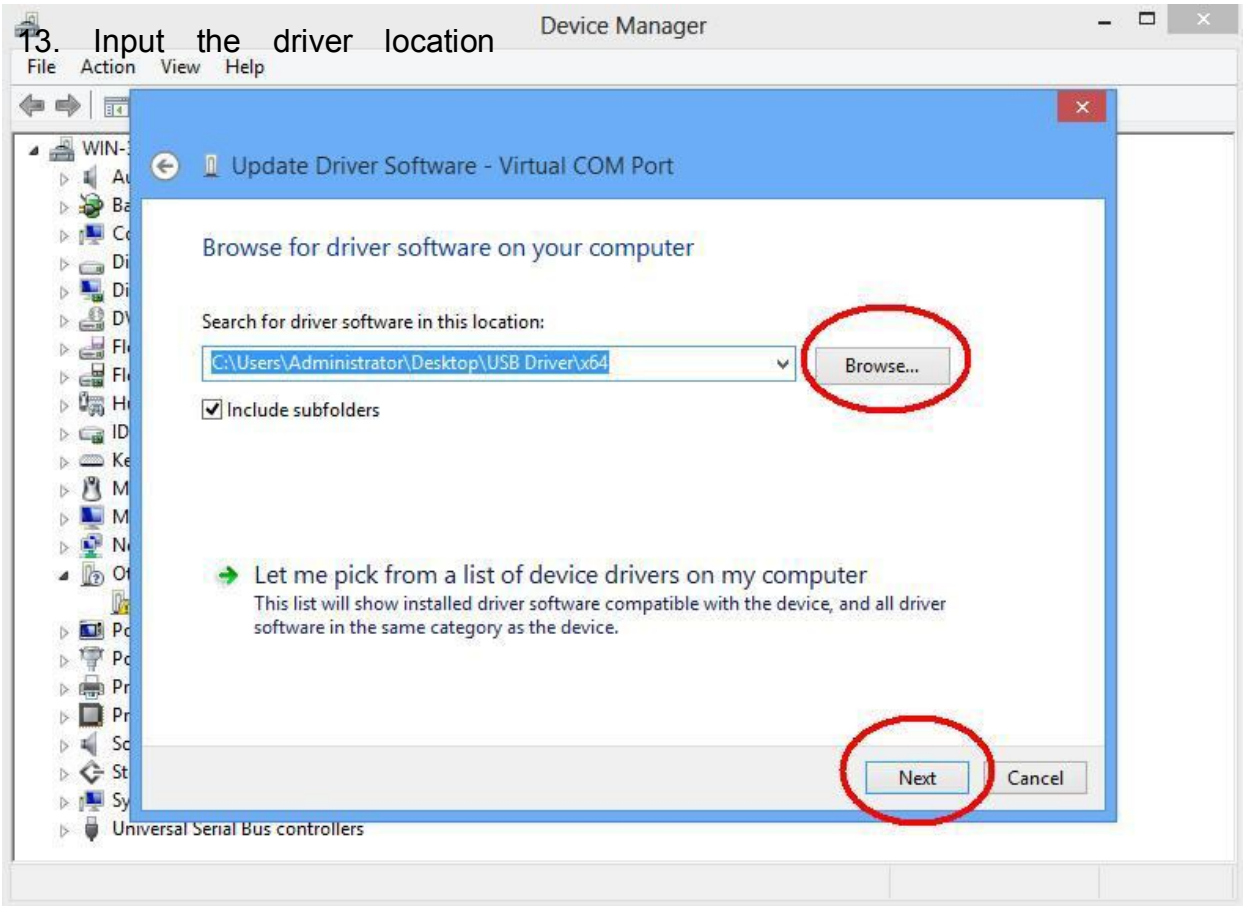
11. In Device Manager, click “Other devices”, right click “Virtual COM Port”, click “Properties”, and click “Update Driver”.



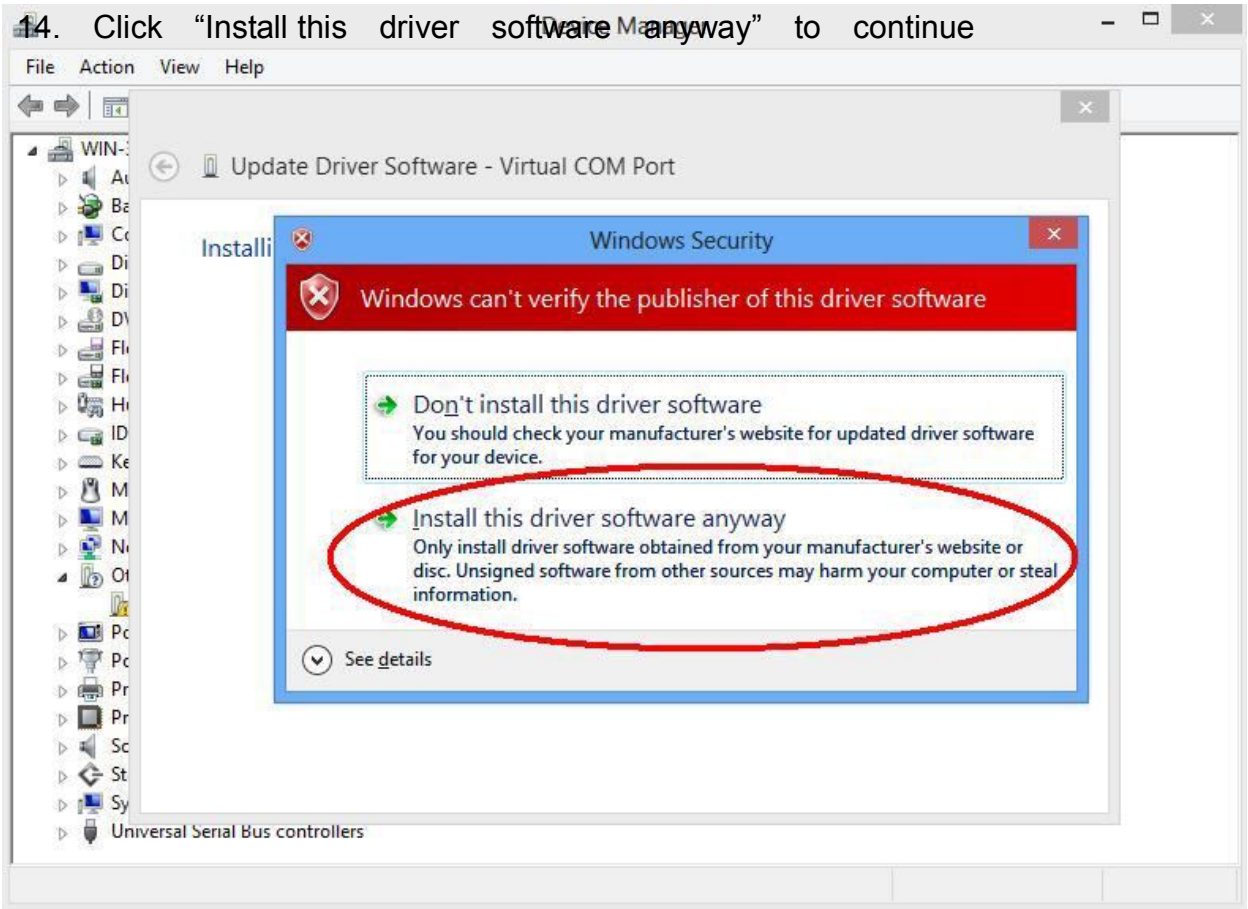
12. Choose “Browse my computer for driver software”



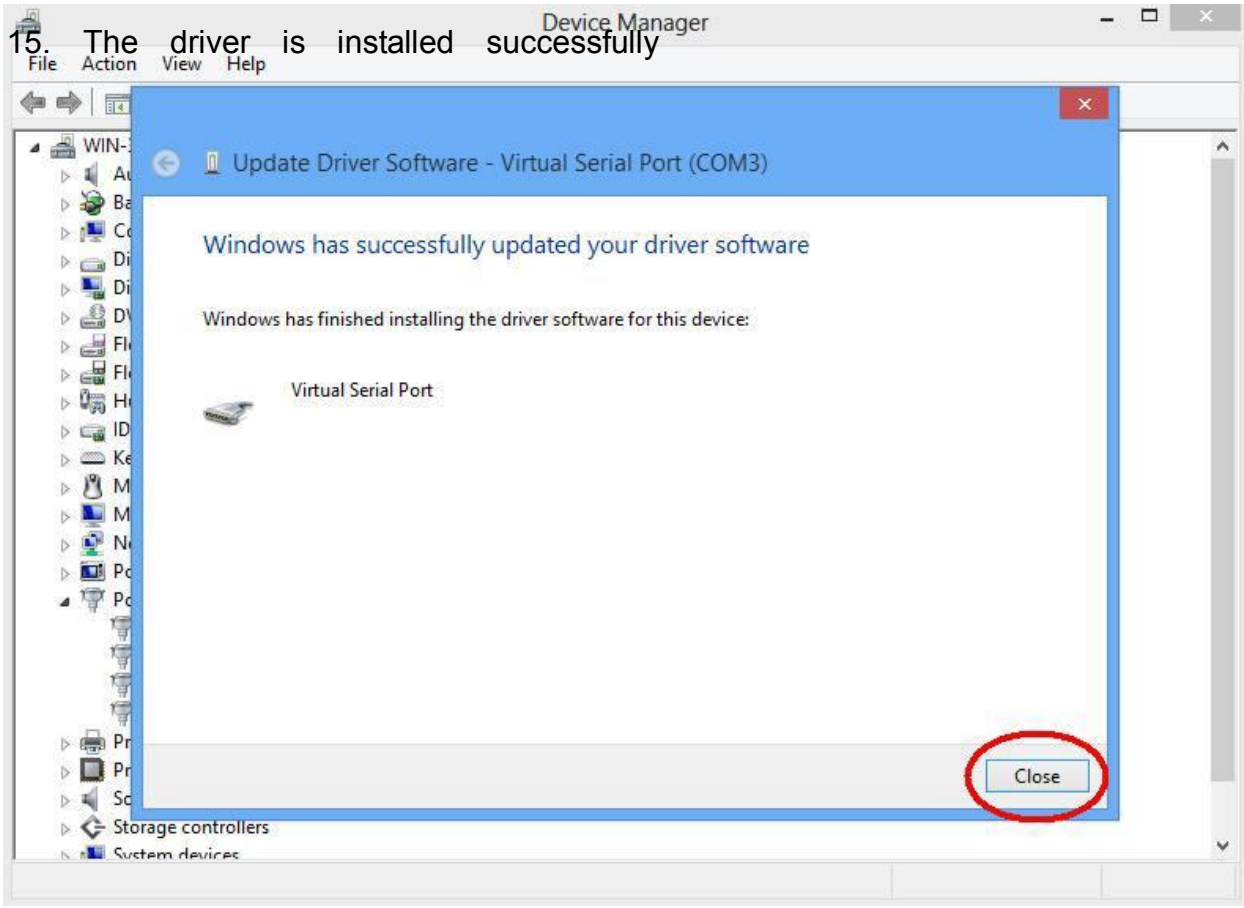
13. Input the driver location

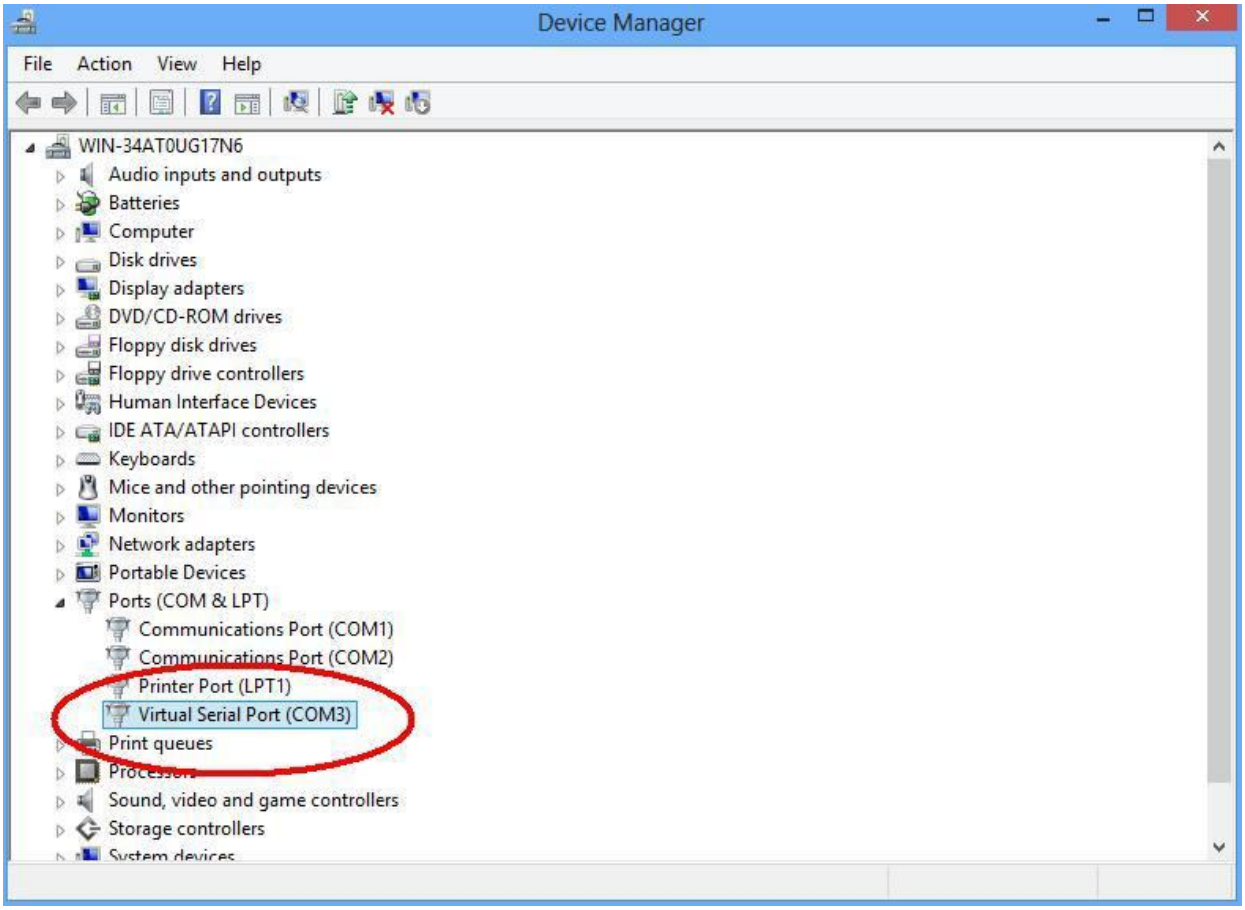


14. Click “Install this driver software anyway” to continue



15. The driver is installed successfully





16. And then install the printer driver accordingly

f SD Card (Secure Digital Memory Card)

1 open the software and complete the drawings and save as the PLT format. Note: the document name in Arabic or English words can not exceed 12 characters.

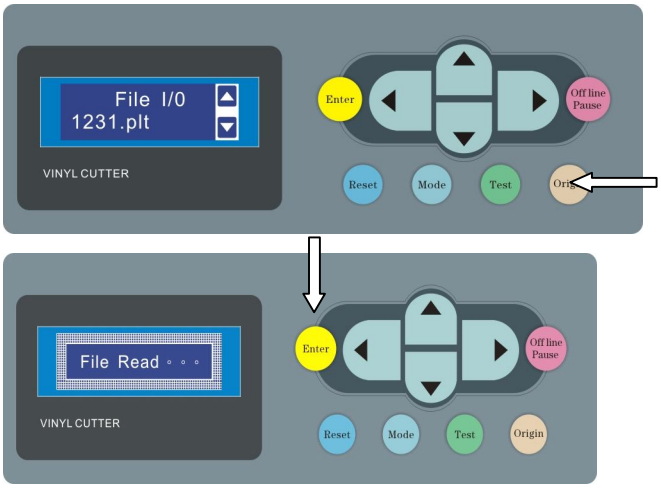
There are two methods to create PLT file.

a. After choosing the correct model No, then appears “What is your HS630 connecting to the computer”,select “FILE”, click “finish"

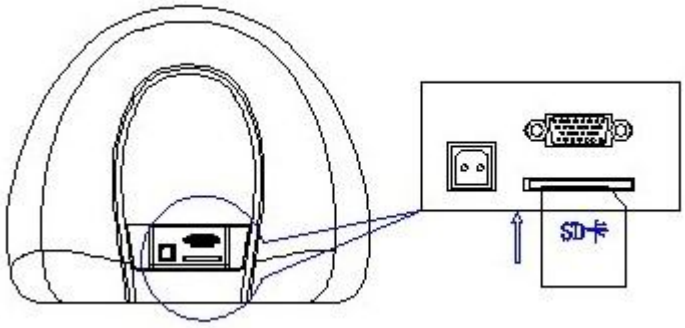
b.Select report mode ”save as files”, then click ”send” and promptly save as PLT format.

* **Note:** File can report as PLT file in Artcut and CorelDraw software.

2 Insert SD card into the machine, press "Origin”, press the arrow keys up and down to find the appropriate file, press "Enter”, then it will start working.

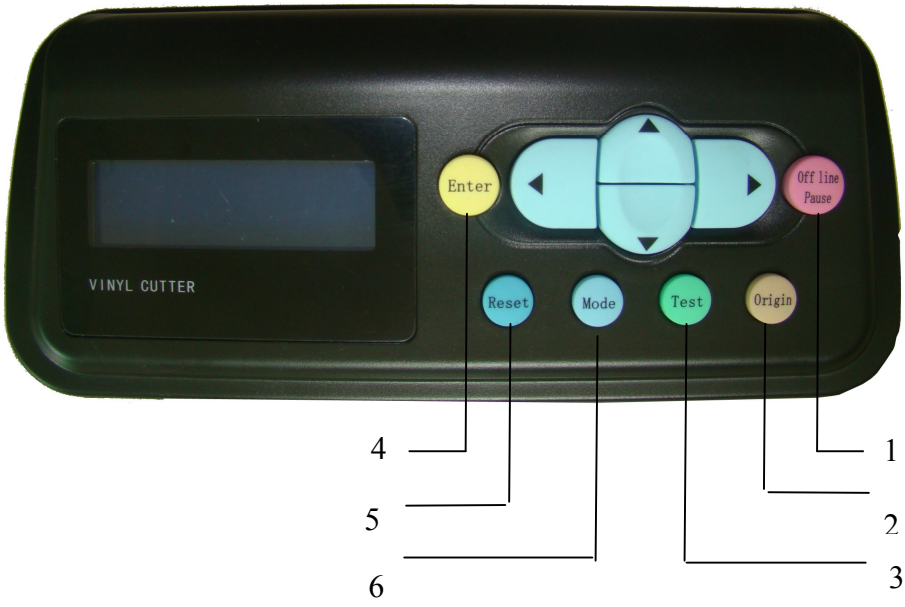


* When take off the SD from the machine, please do not extract directly, tap the SD card with your hands slightly and it will pop up.



5 Operating instructions

a Control Panel illustration

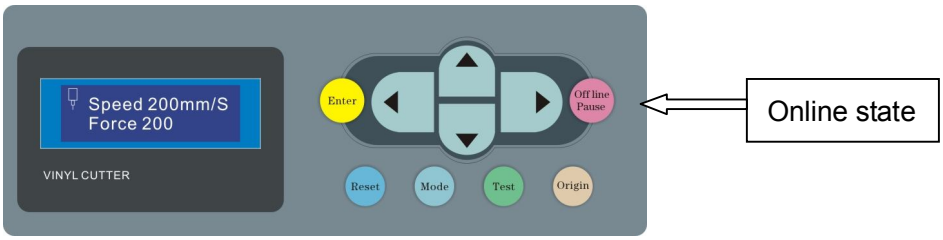


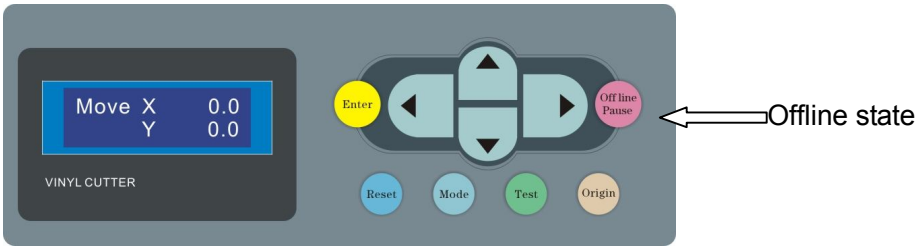
1. Offline pause	1.Switch On-line state to Off-line state 2, Can be suspended when cutting.
2. Origin	1. press"◀""▶" to move car and "▲" to move media, then press" Origin" button to make old coordinates cleared, and set up new origin. 2, Press the button at online state to read SD card file, press"▼","▲" select file, then press "Enter" to work
3. Test	Text cutting effect
4. Reset	Reset and clear cache memory data on main-board.

5.Enter	After selecting SD file,press button,machine operates order.
6.Mode	1,Change “blade mode” to “pen mode” 2,MPX,MPY to adjust override.

b Off-line/On-line

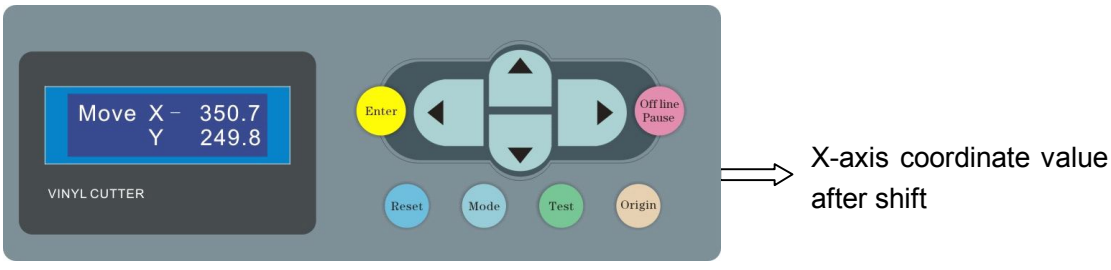
When the cutter starts or resets, it becomes in online state. Press “Offline/Pause” button to switch to off-line state. When computer transmits signals to the plotter, the plotter must be Online. The LCD will display the Speed/force information as follows:

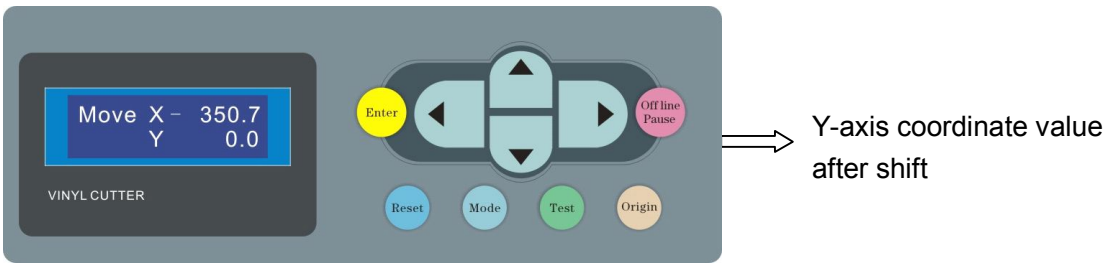




c Media moves and car moves

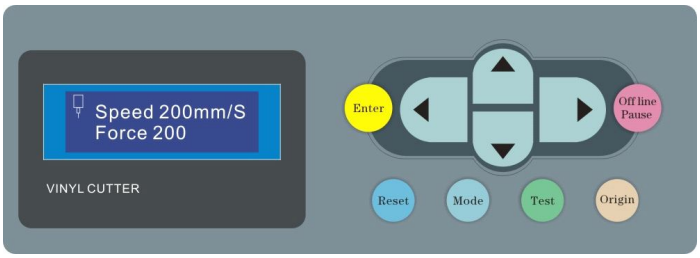
The plotter is offline, press the left arrow key "◀" the car moves, press the right arrow key "▶" the car will move to right. Press the up arrow keys "▲" the media feed roller will lead to move forward, press down arrow keys, the media feed roller will lead to move backward. LCD "XY" coordinates after moving with the numeric value will change accordingly.





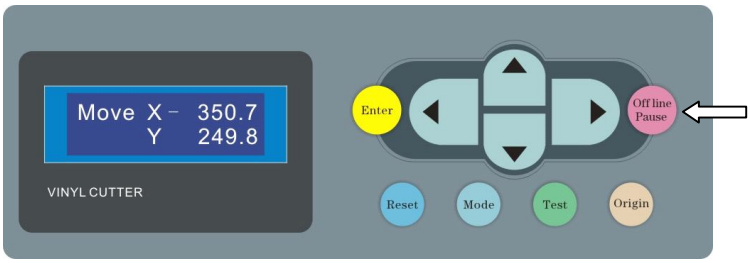
d Adjusting speed and pressure.

In line with local state and send the process of carving knife pressure and speed of testing, debugging speed increase speed by value increment key, key to decrease the value by value reduction, testing the pressure to increase the pressure by value increment key By numerical reduction to decrease the pressure.



e Pause function

During plotter output, press the “Off line / Pause” button, the plotter will be in suspended state and displays the coordinates of the current document processing parameters. As shown:



f Media installation

1 Media storage and use precautions

— After opening the package, store the media in a cool dark place to avoid sunlight and water

— Do not place the print media to erect in order to avoid edge damage

— Do not fold and stack the print media

— Do not use bruised, wrinkled, curled, or stained with dust medium

— Do not drop or wet the print media

— Need to tidy up before installation media

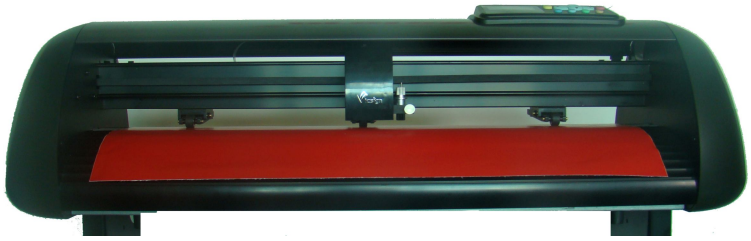
2. The machine used for single media, but also for rolls of media.

3. Main operation methods of using the media

(1) To press the pressure roller handle at the back of the machine, lift the pressure roller

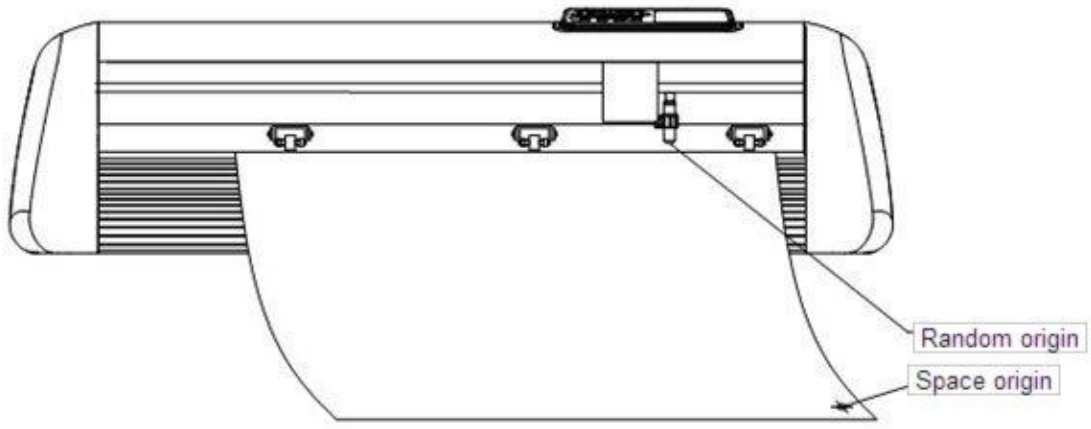
(2) Insert the media correctly.

(3)Move the roller to cover the steel shaft claw, it can ensure the best tracking length when you allow the media away from the machine both at left and right place.



(4) Handle the stage, and press the media.

g. Setting the origin

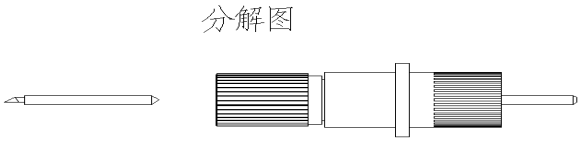


The lower right corner as the absolute origin of the media, the user can be set based on their own to the appropriate position, after moving off a good bit about setting up/down and left/right keys, press the "Origin" button coordinates cleared, the new origin is set up, carving output from the knife from the new origin.

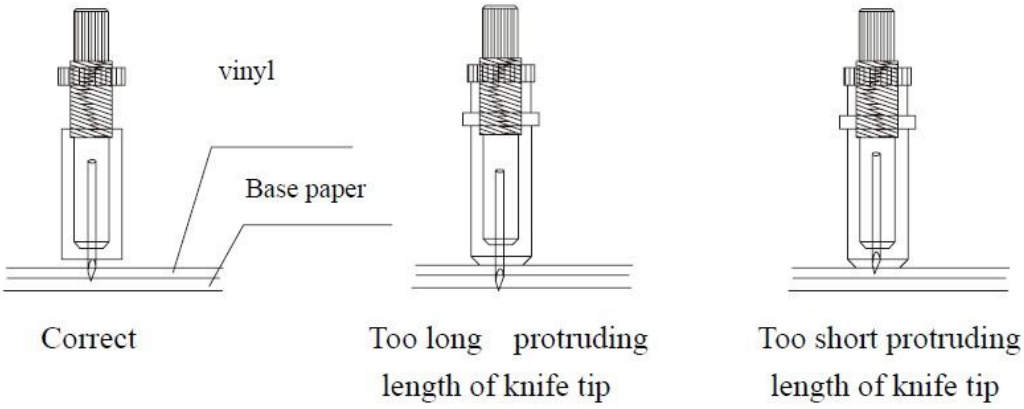
h Knife set and adjusting

CAUTION: Don't touch the knife top with your finger prevent injury.

a. Install the knife into the holder. Rotate the knife sheath to adjust the length of exposed part of knife tip. Blade holder exploded as shown below, the detail operation are described as followed:



b. For different material, users can adjust the length of knife sheath exposed at any time.



c. Install the blade holder into carriage

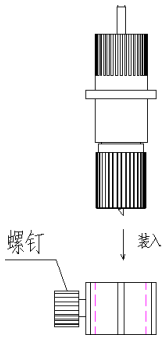
— Loosen the screw of tool carrier

— Assemble the blade holder into the tool carrier

— When the tool is in appropriate position, tighten the screw.

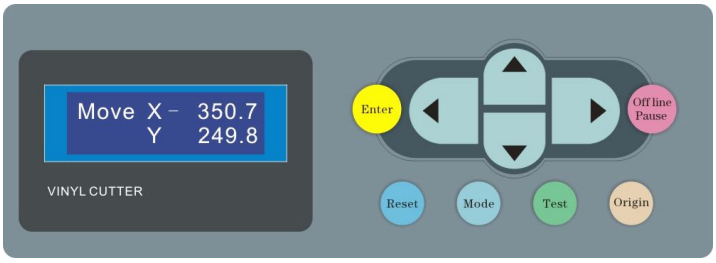
i Drawing pen installation

The installation method for pen group is basically the same as blade holder, except for adjusting the nib



j Media test strip debugging

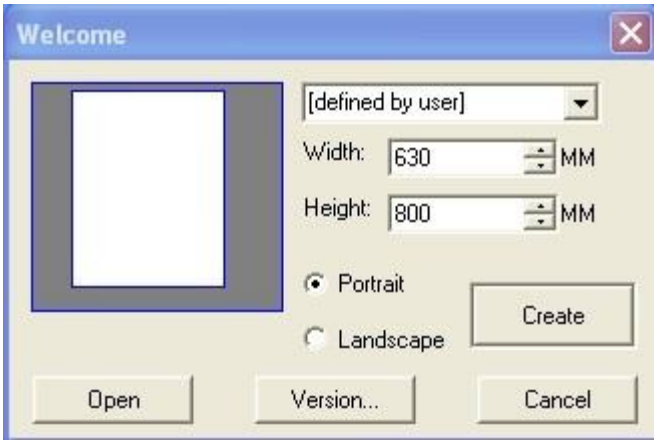
Locate the position of car and media, press "Test" button, the machine will automatically cut out a square and triangle, and tear-out the test strip by hand, if can be easily opened, and not carved through the adhesive, indicating that debugging is good, if tear-out with the associated media, you need to increase the blade pressure or adjust the knife extended tip, then continue to press "Test", the machine will automatically cut the left side of the original location of test strips, you need to do this before you testing well.



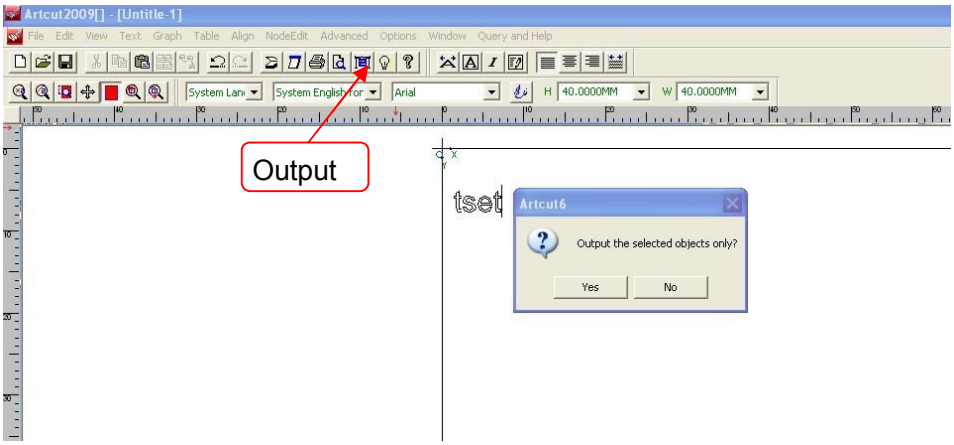
6.Artcut software operation and Setting

a. Artcut software operation

Open software,press creat new file.



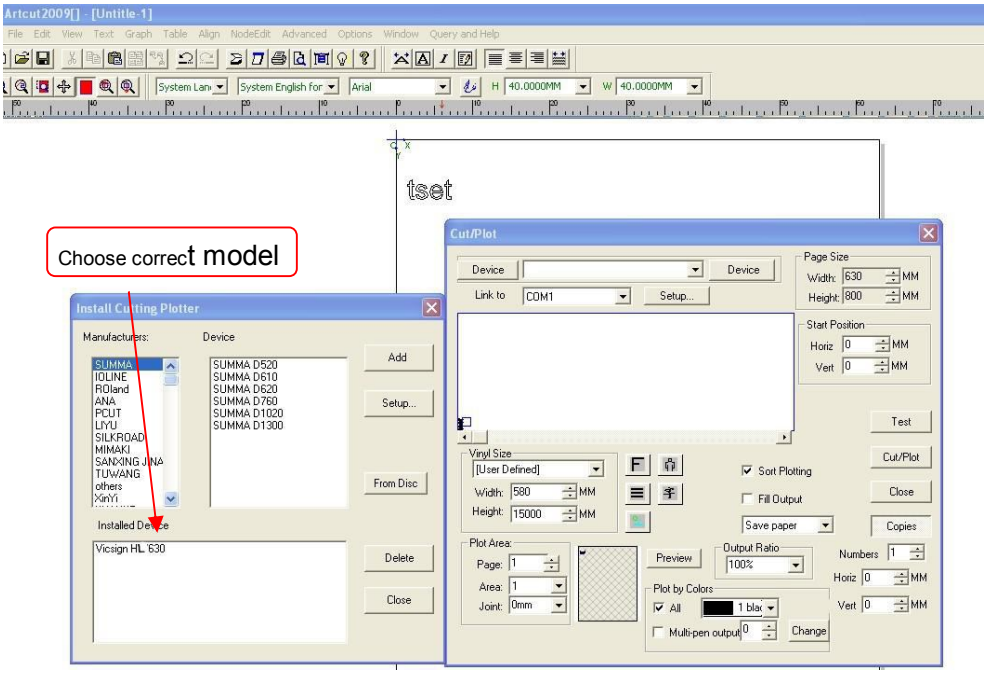
Inset objects,select object,press Output button,choose Yes,as follows



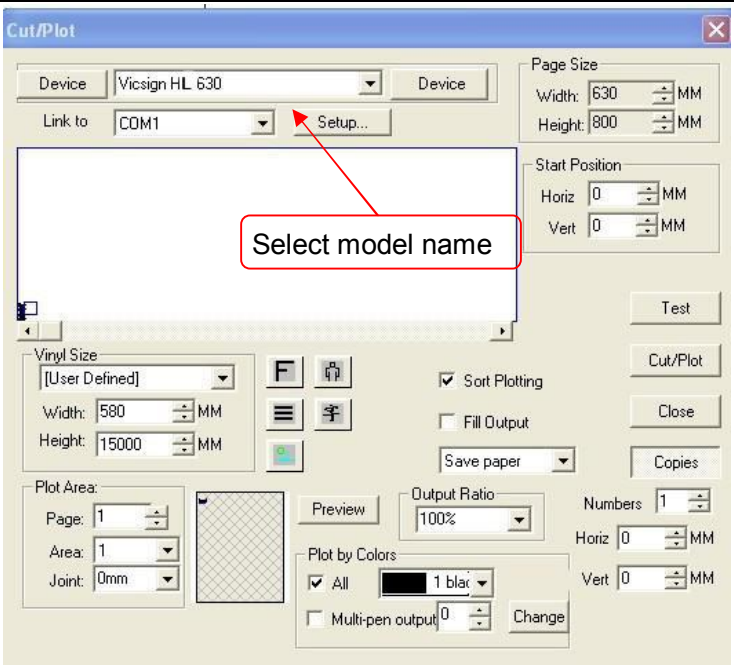
b.Parameter setting

Cut/Plot

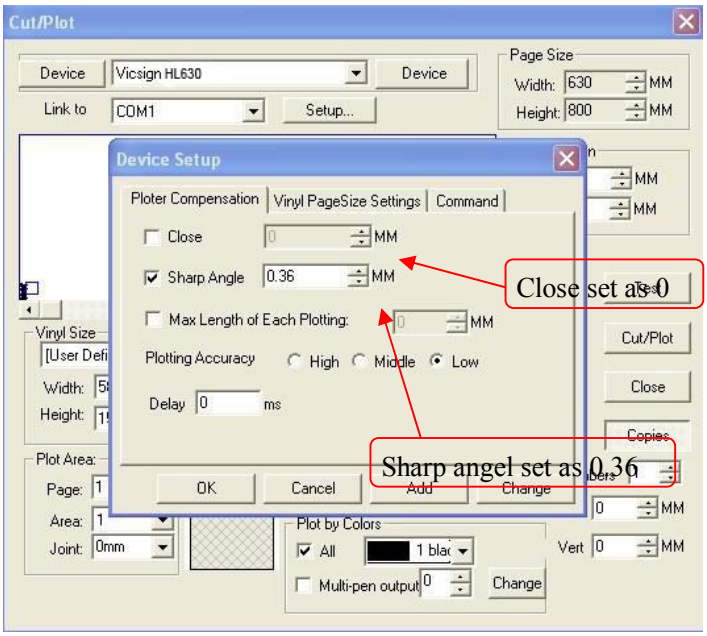
Dialog box,select manufacturer of Vicsign,press Add,then select Vicsign HS330,Vicsign HS630,Vicsign HS1200,etc



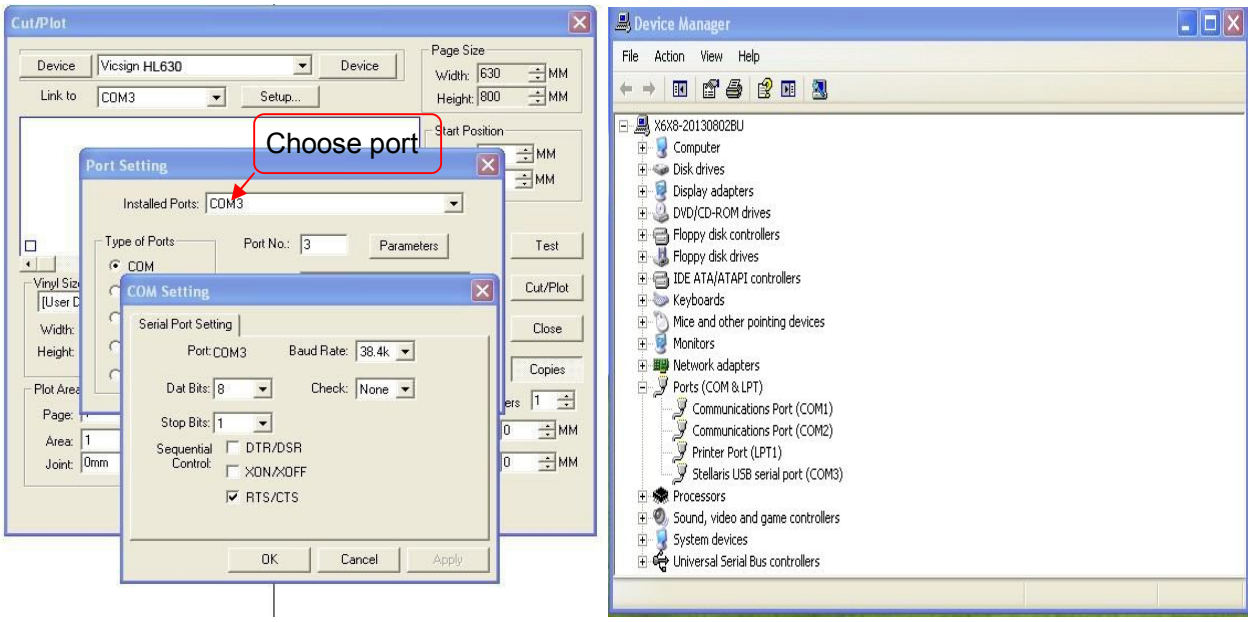
Choose the device which is same as your cutter model name.

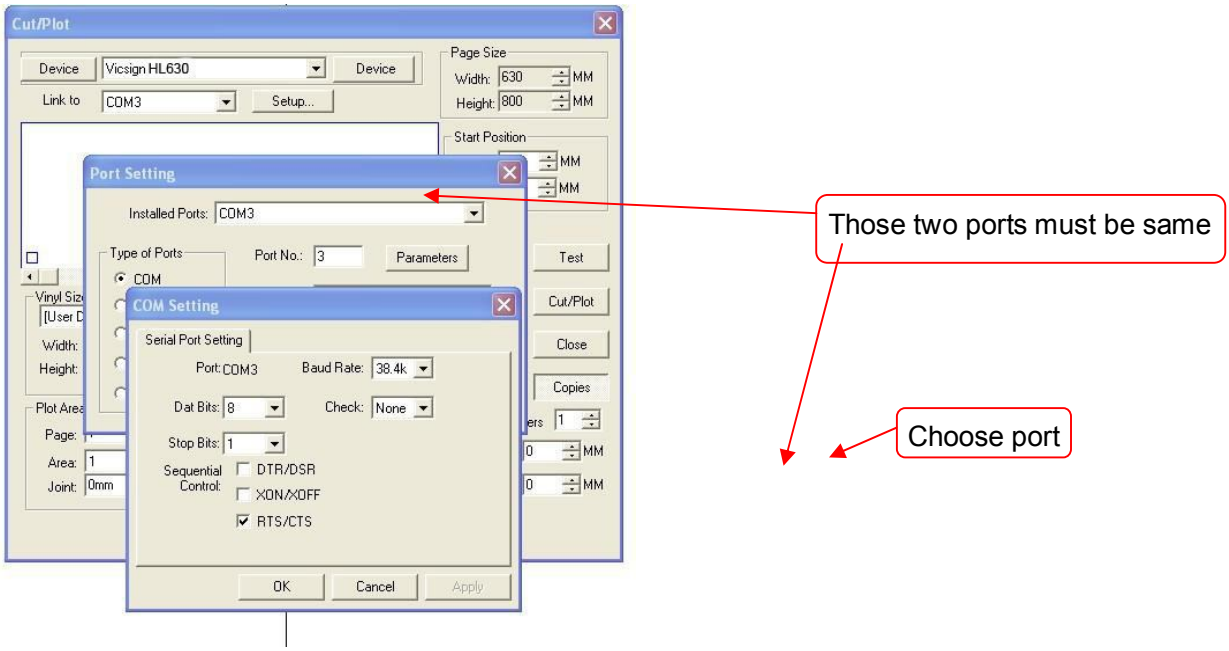


Choose setting port, closed compensation set to 0, Sharp Angle compensation set to 0.36

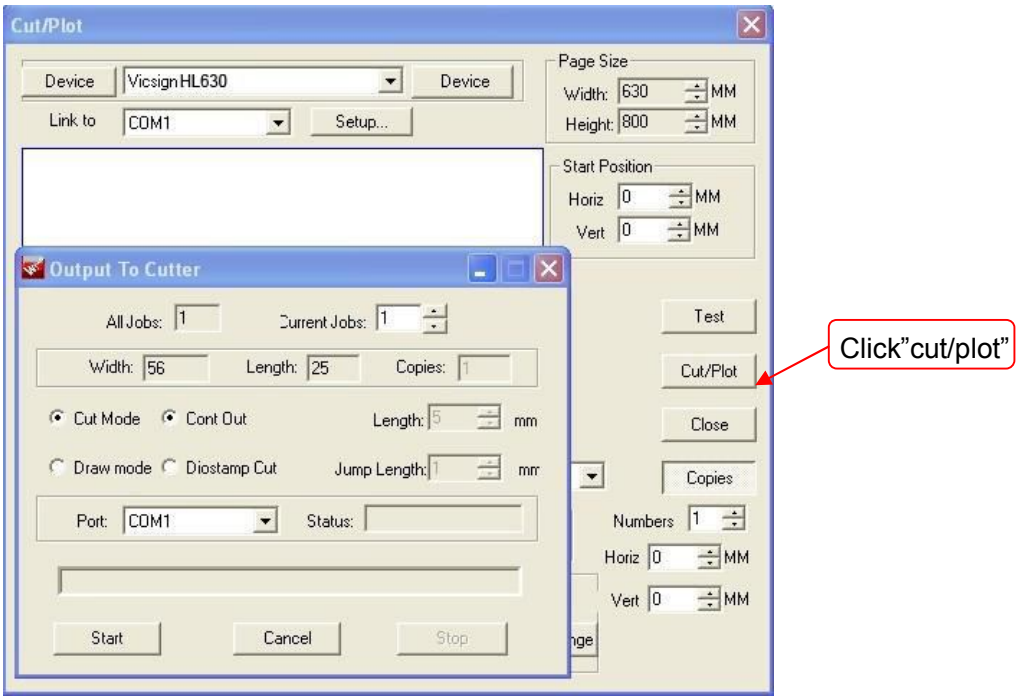


Select right installed port from drop-down menu,then open “COM setting” dialog box,set up according following shown:





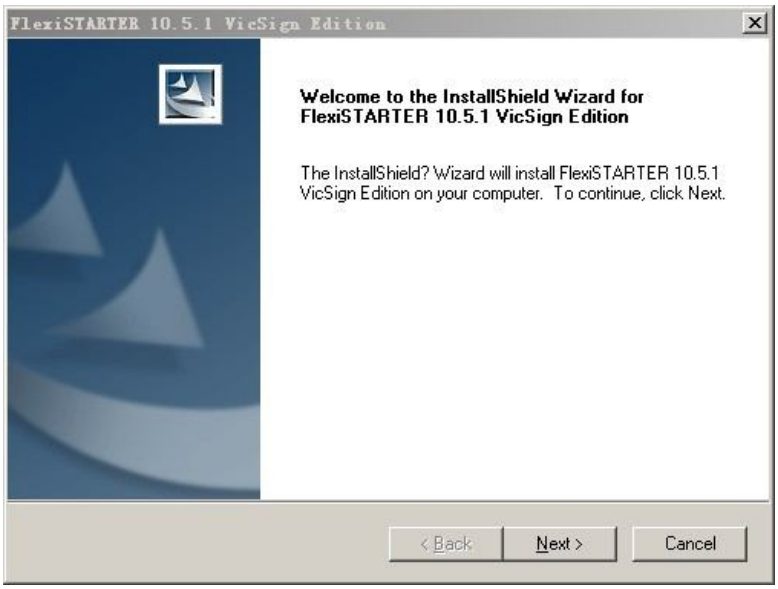
Click"cut/plot" to output the graph.



7.FLEXI software installation

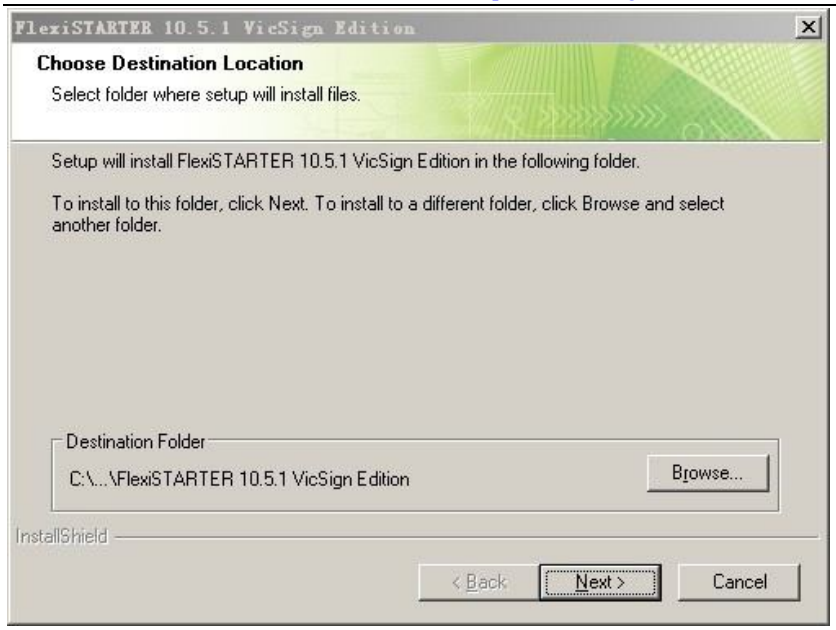
Put FLEIXI CD into CD ROM, open files and click "Autorun.exe" install the software.In the process of installation, please don't insert dongle on computer, so to prevent dongle driver cannot be installed.

Click next,



Select “I agree the terms of the license agreement”then click“Next”

Select the installation path, click next.



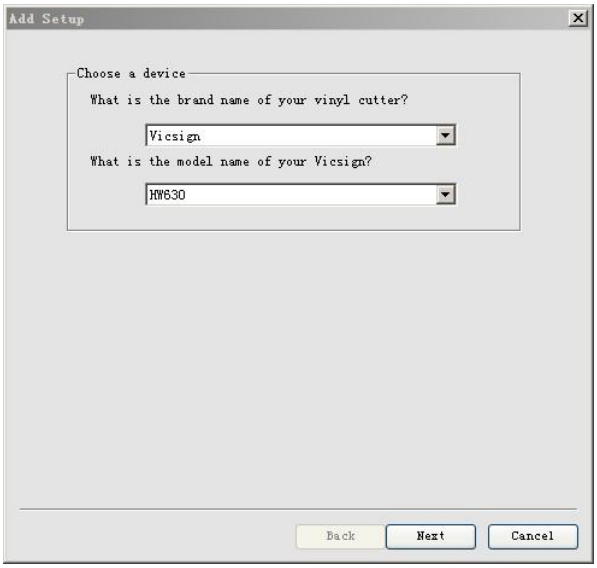
Pls insert dongle on computer, and input password, it will automatically show ID number of user,as follows:

Select language, click “done”and software will finish installation,then it will auto fix desktop shortcut.

a.Flexi operation

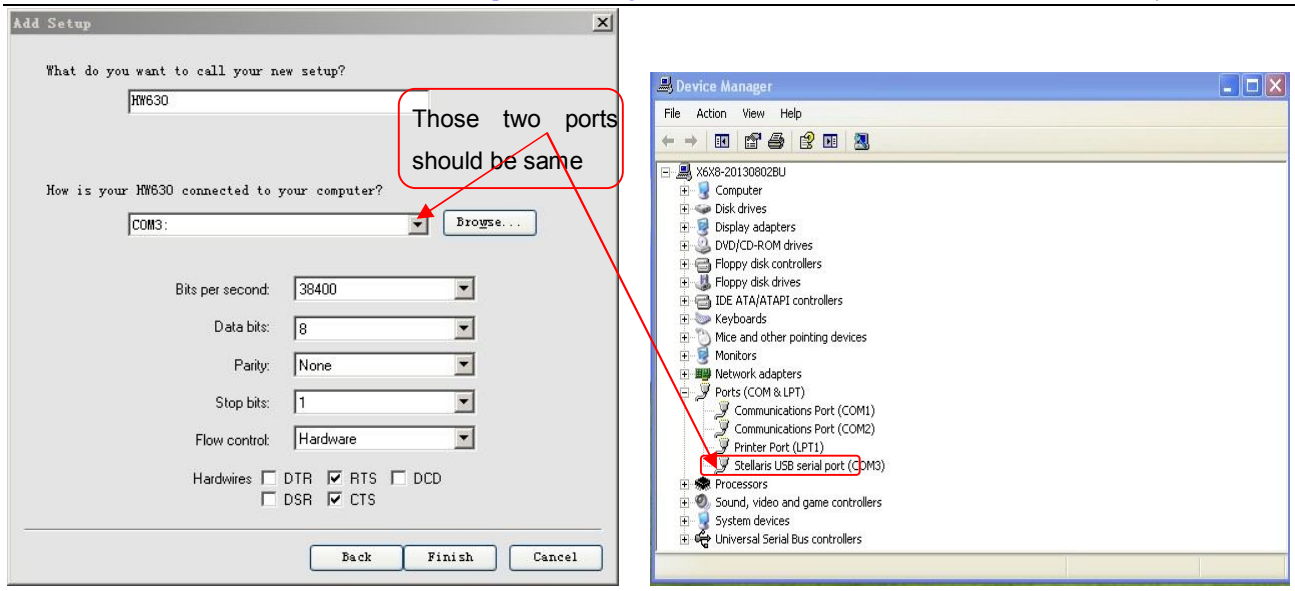
1,open Flexi software,make new file or open other files,click cutting/draw button" " to send file

2, the software automatically switches "Add Setup" dialog box, select brand name and model name accordingly, click Next,as follows:

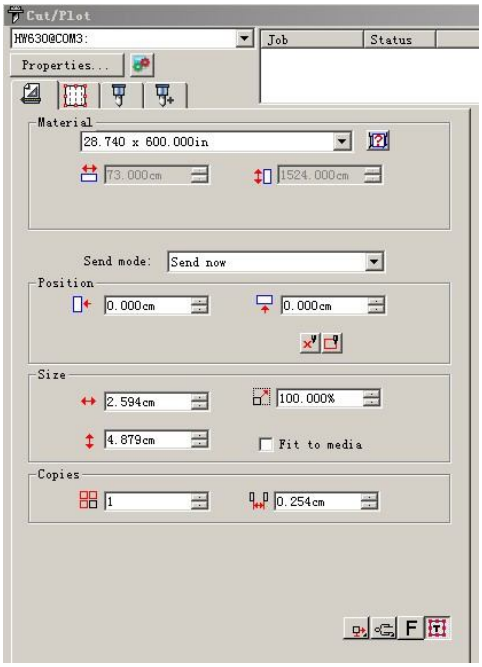


3,select connected method.

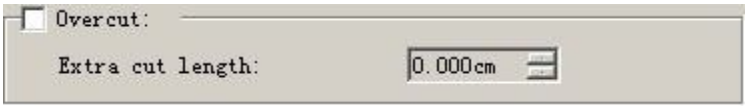
***Caution:**please make sure the Flexi interface port is the same as Device Manager shown,otherwise machine can not work.



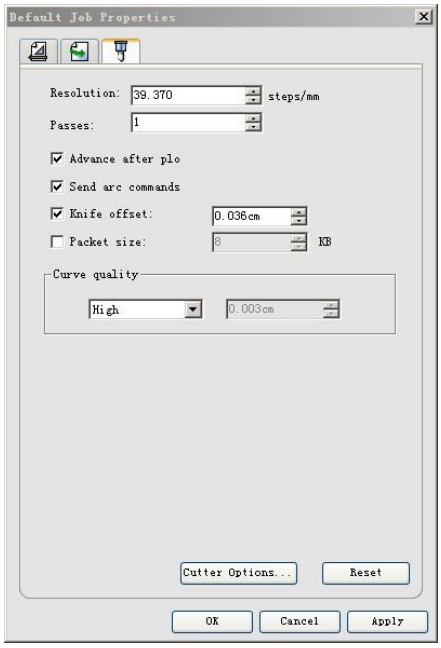
4. Please choose the port the same as cut output port, the other parameter is the same as handshare agreement (above picture)show, baud rate: 38400 hardware handshake agreement："RTS"and"CTS"



5.Enter into the above cutting interface, set the overcut to 0, and then click properties.

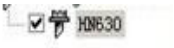


6. Set the 0.036MM at knife effect,and the rest are same as following shown:

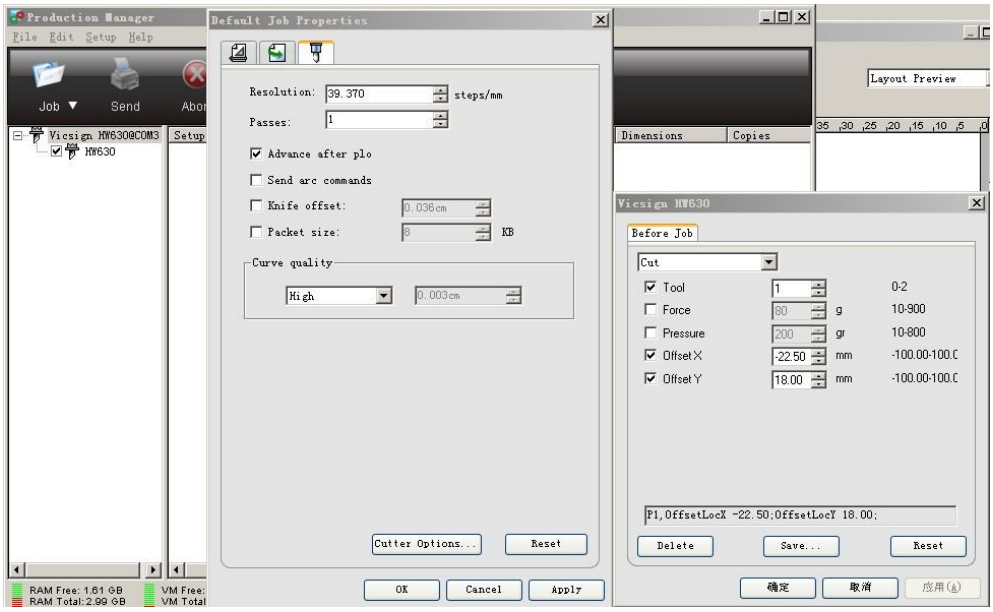


b. Enter Into the “cutting” interface

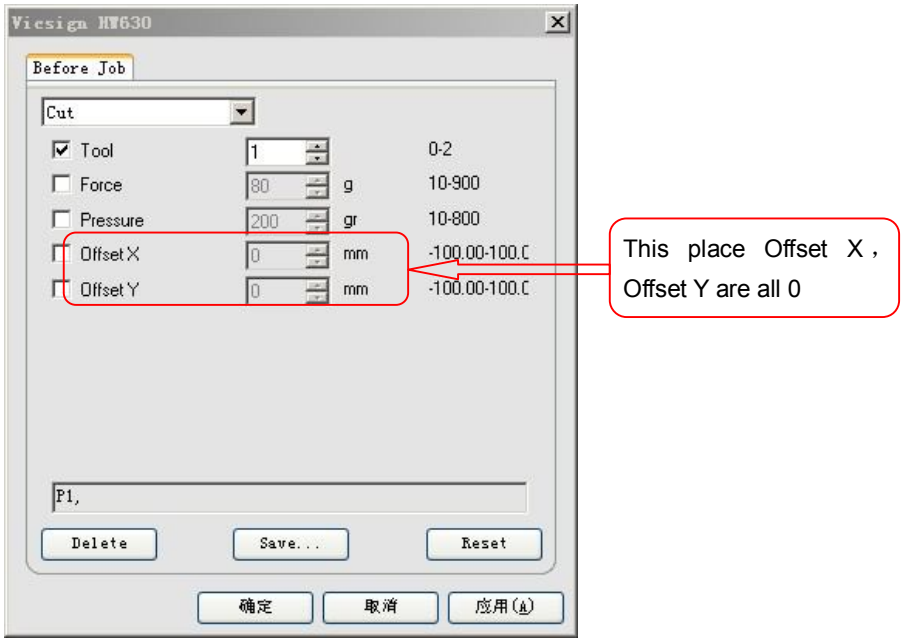
1. Double click



Click on the "cutting machine options" pop-up "Vicsign HS630" dialog,



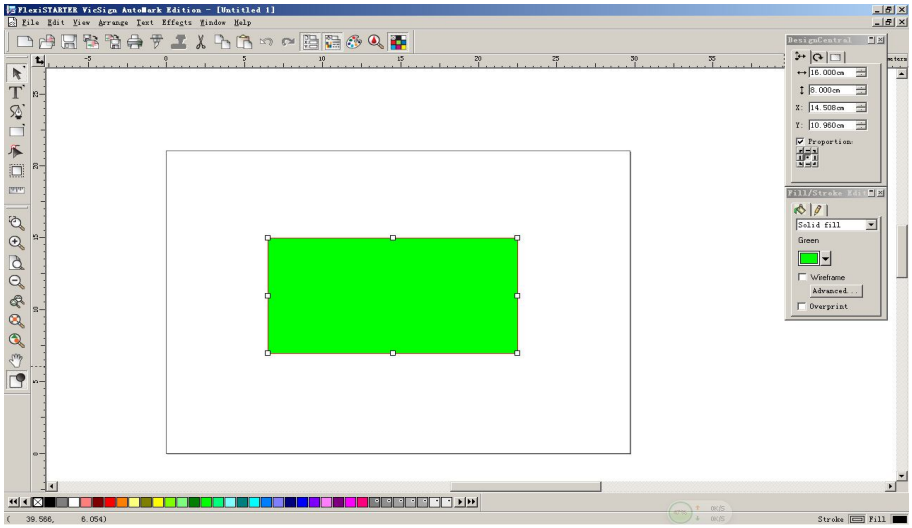
2.Each time the offset X and offset Y should revised to 0

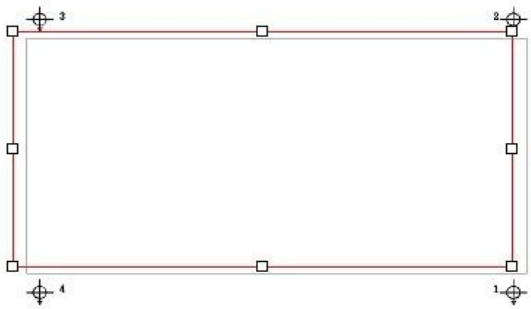


3.Offset X is adjusting migration of forward and backward direction.

4.Offset Y is adjusting migration of left and right

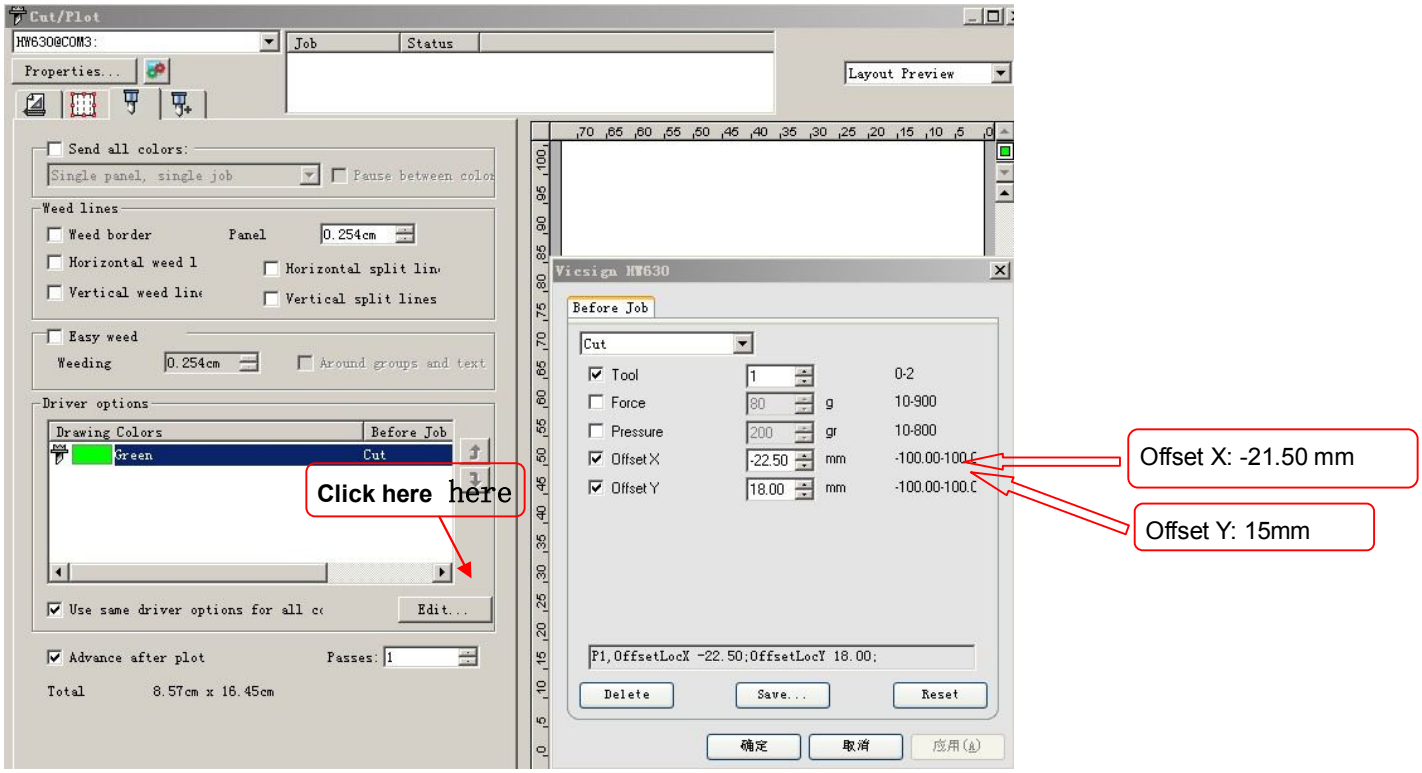
5. In the edit dialog Offset X －22.5，Offset Y 18 there is a deviation in the actual assembly process, can first do a rectangular in software to make those parameters adjustment.





As shown in figure: black rectangle for the required graphics, red rectangle for the actual output offset graphics, by measuring the actual shift to the left 3 mm, upward migration 1 mm,

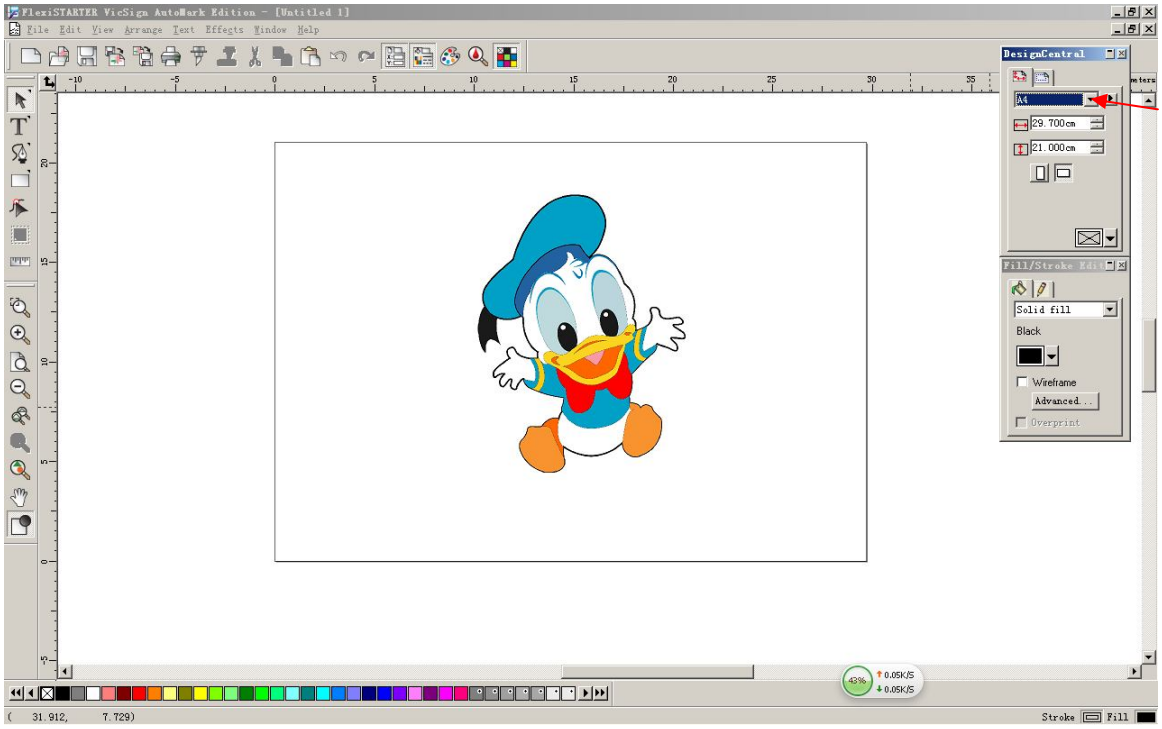
Adjust methods: if need adjust to left, add ; if need adjust to right, subtract; if need adjust to forward, add; if need to adjust to backward, subtract, after adjusting the Offset X: -21.50 mm Offset Y: 15mm



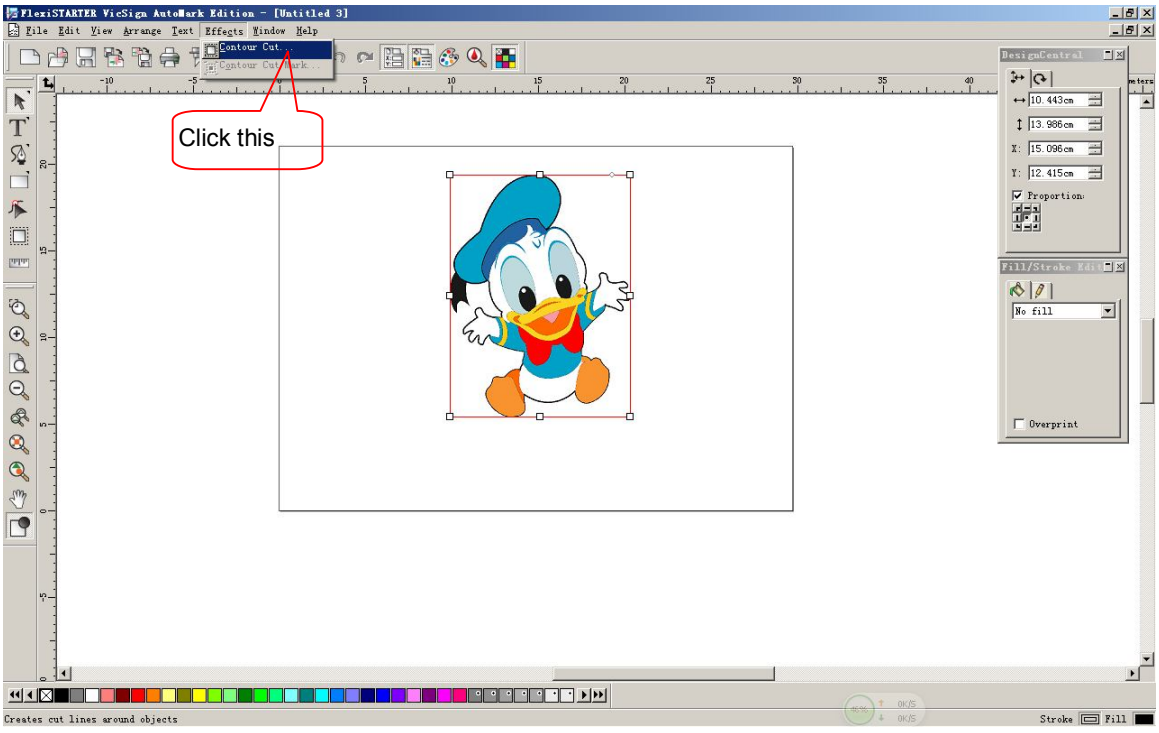
Red dot positioning contour cutting function

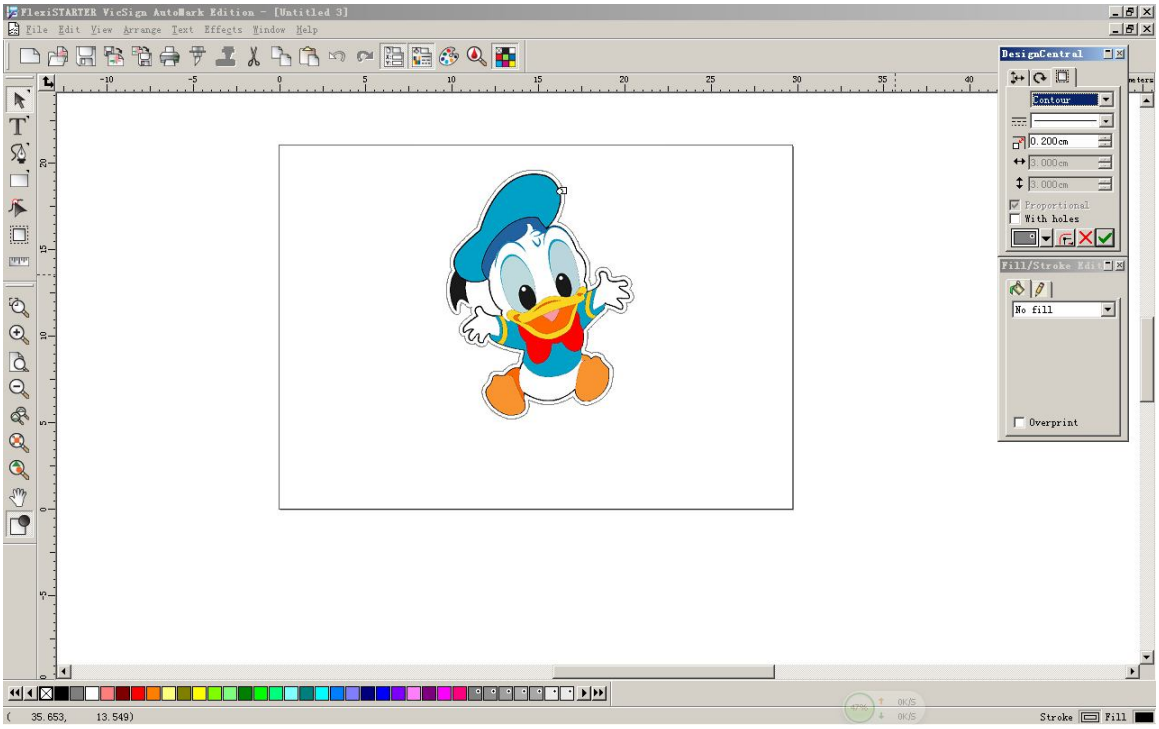
1.Open Flexi STARTER Vicsign software, import graphics, click on a blank part of the graphics, the software automatically switches the "Design Center" dialog box, set the format cutting material, such as A4 size on the cut, format is set to A4, as shown

2.support contour cutting format are: PSD、PNG file。

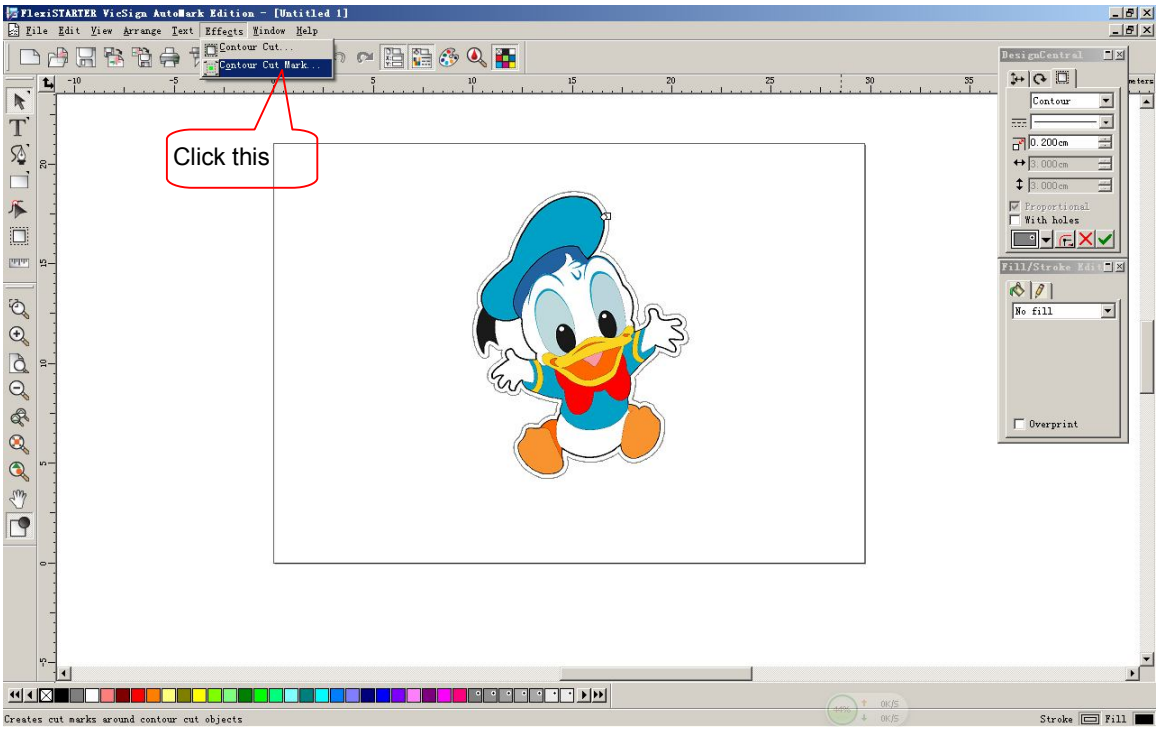


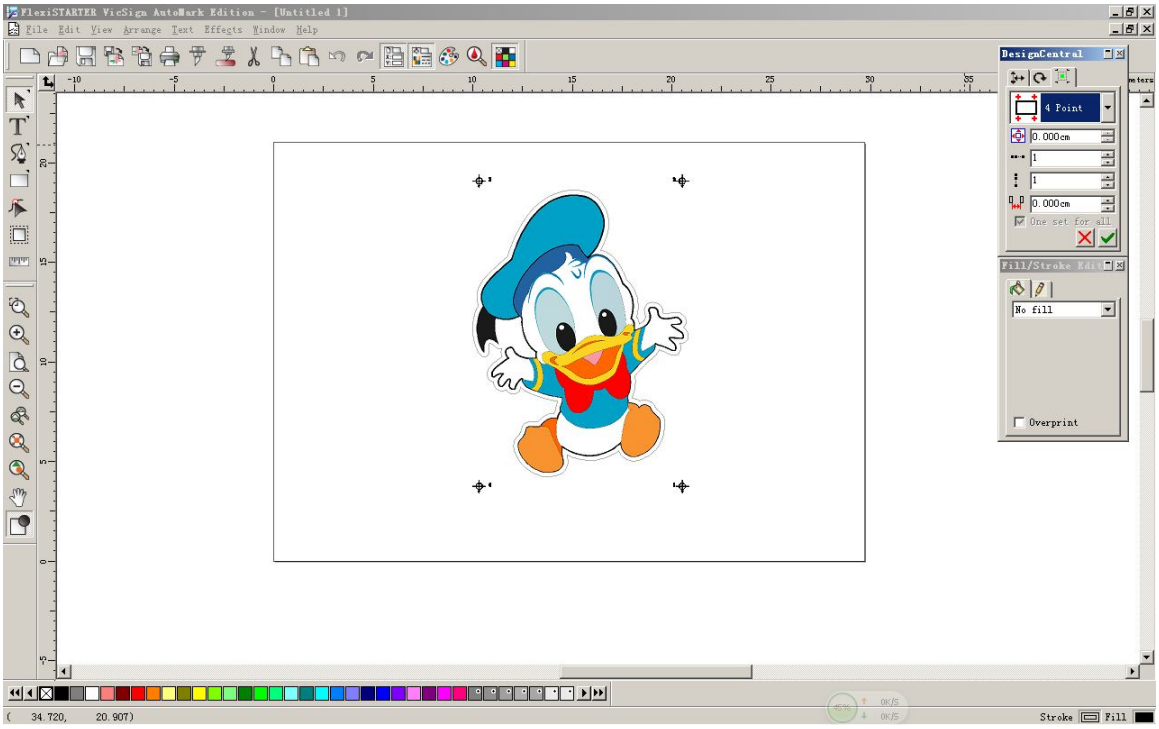
3.Select the graphic and click on the menu above the "rural effect" then click the "contour cut" cut set as needed to outline the contours of line graphics, click OK. As shown:



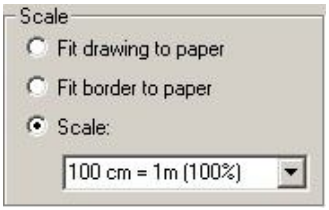


4.Then click the "rural effect" on the menu and point "hit contour cutting marks" can be chosen to mark the number of how many, four-point mark is the most accurate precision. Click OK. As shown:





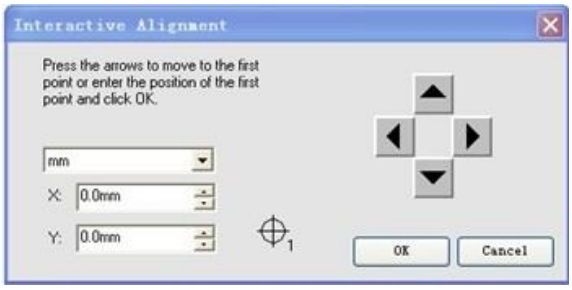
5..Print the files done Note: the proportion of printer is 100%。



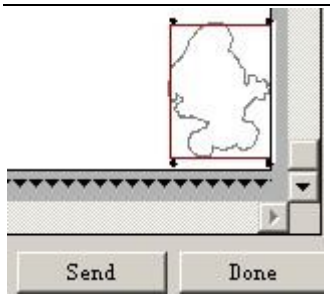
6. Print drawing into the machine, pay attention: the process of drawing the device keeps the red dot on the right bottom of the first marker. Point out the "contour cut" and click Send.

7.Select "Manually Interactive Mobile"

With the mouse or the keyboard arrow keys to move the car, the red dot at the center of the first mark, then followed by some of the other markers to confirm. Click "OK" to start cutting machines. As shown:



8.. Click “finish”, instantly finished painting

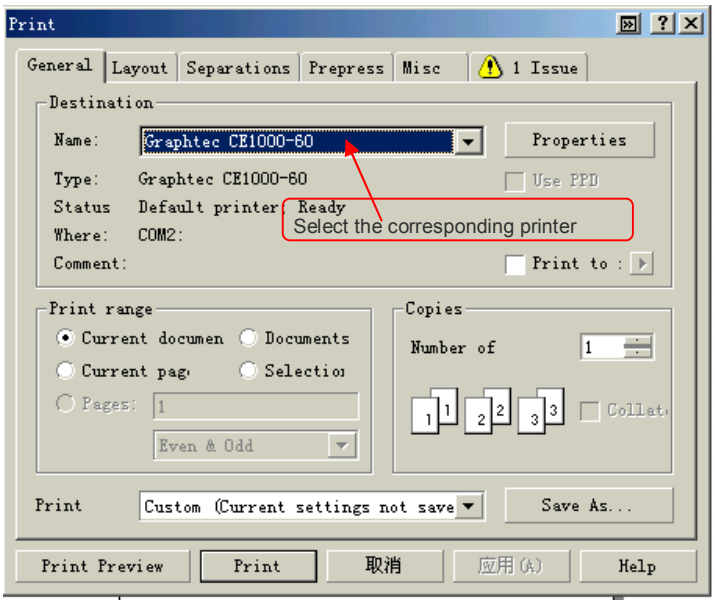
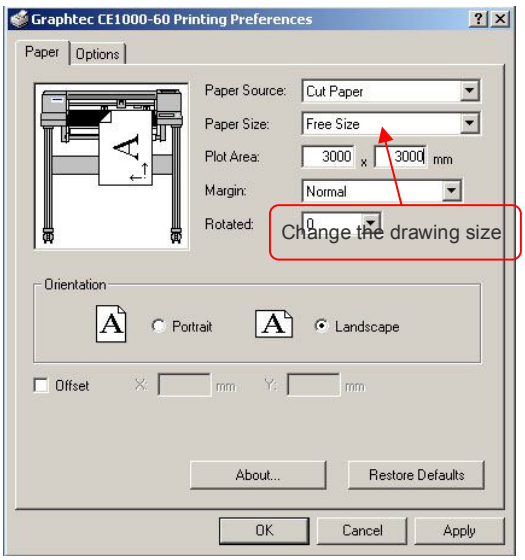


8. CorelDraw plug in

a CorelDraw plug-in operation:

b CorelDraw parameter setting

Choose the printer, appeared the following dialog box, choose CE1000-60 printer



If there is a drawing paper mistake, click properties, and change the size of the drawings. Click ok to print output.